ILCO DETAILS

REG. U.S. PAT. OFFICE

INDIANA LIMESTONE COMPANY

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120.

ILCO DETAILS

Foreword

ILCO Details are offered to the Architectural profession as a contribution to the successful use of Indiana Limestone, *The* Nation's Building Stone.

These Details do not attempt to stress architectural merit. They are intended merely to show sound structural practice for the economical use of Indiana Limestone. Carefully prepared cut stone details invariably result in lower cost and better workmanship by cut stone contractors.

Prepared for Indiana Limestone only; ILCO Details should not be employed as a criterion or standard for materials which do not have the same physical properties. This warning is voiced and the sheets have been copyrighted in order to protect the users of this, *The* Nation's Building Stone.

Every attempt has been made to make the sheets reflect the most advanced practice. Nevertheless, this is an age of progress. Criticism and suggestions will be welcome either with reference to the subject matter of sheets already published or of those to come.

The selection and reproduction of outstanding as well as representative examples of Structural Design has proven such a monumental undertaking that ILCO Details will be issued at regular intervals in loose leaf form. It is planned to continue this series of plates until all essential items in the various types of construction with Indiana Limestone have been covered.

ILCO Details will be supplemented by a Specification Manual containing not only the Standard forms of specifications for Indiana Limestone but also recommended practice with reference to anchorage, setting mortar, care and cleaning of stone and many other important items which cannot be fully explained in the drawings.

It is hoped that both ILCO Details and the Specification Manual will be found of value to Architects both in office and drafting room. For the replacement of any missing or worn sheets, copies of the Specification Manual and other descriptive literature, please address the Architects' Service Bureau, Box 308, Bedford, Indiana.

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BEDFORD, INDIANA

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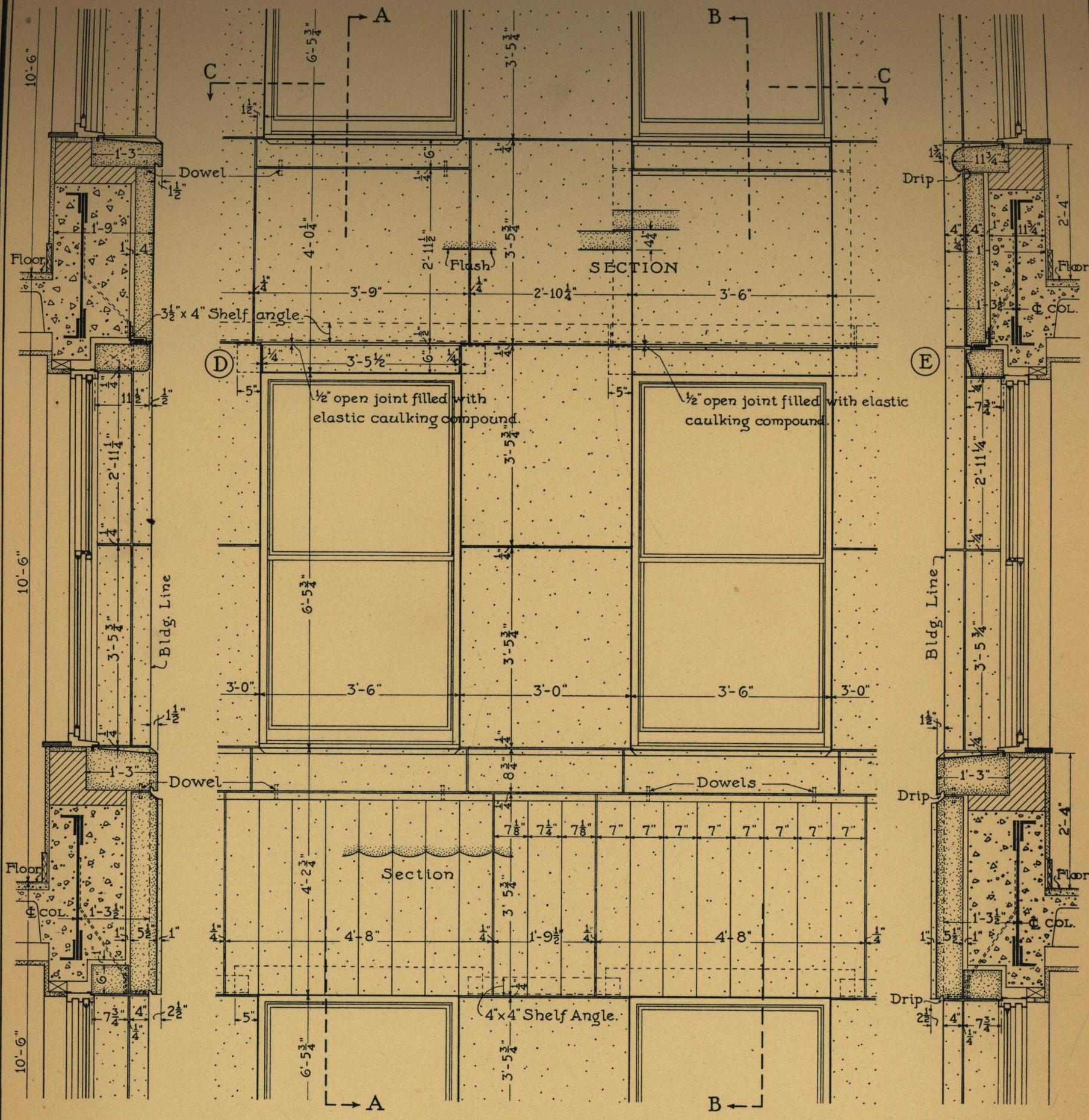

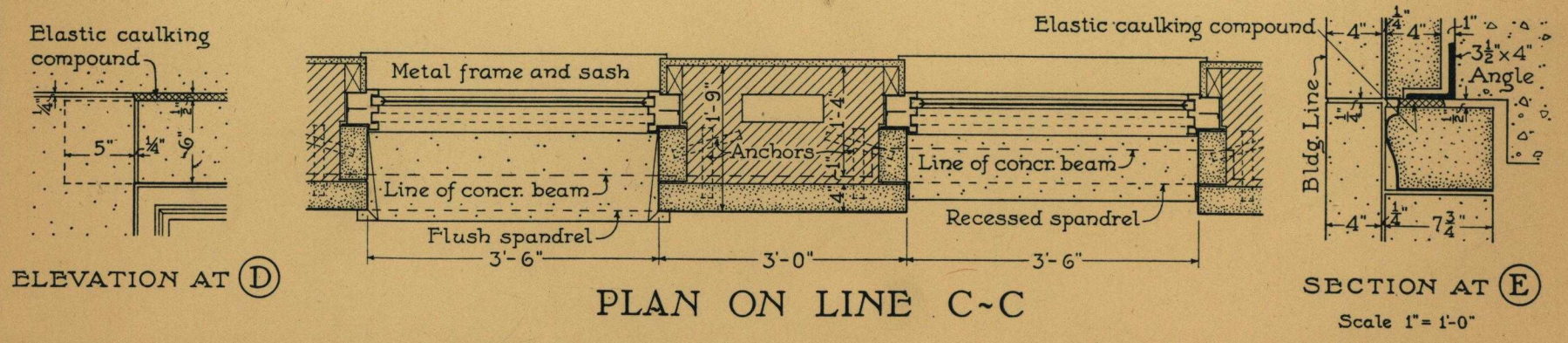

ILCO DETAILS
REGISTRATION APPLIED FOR

SPANDRELS

Spandrels for Modern Office Buildings showing Flush and Recessed Treatments

DRAWING Φ-1

Binder File Classification } 51.1

October 1, 1929

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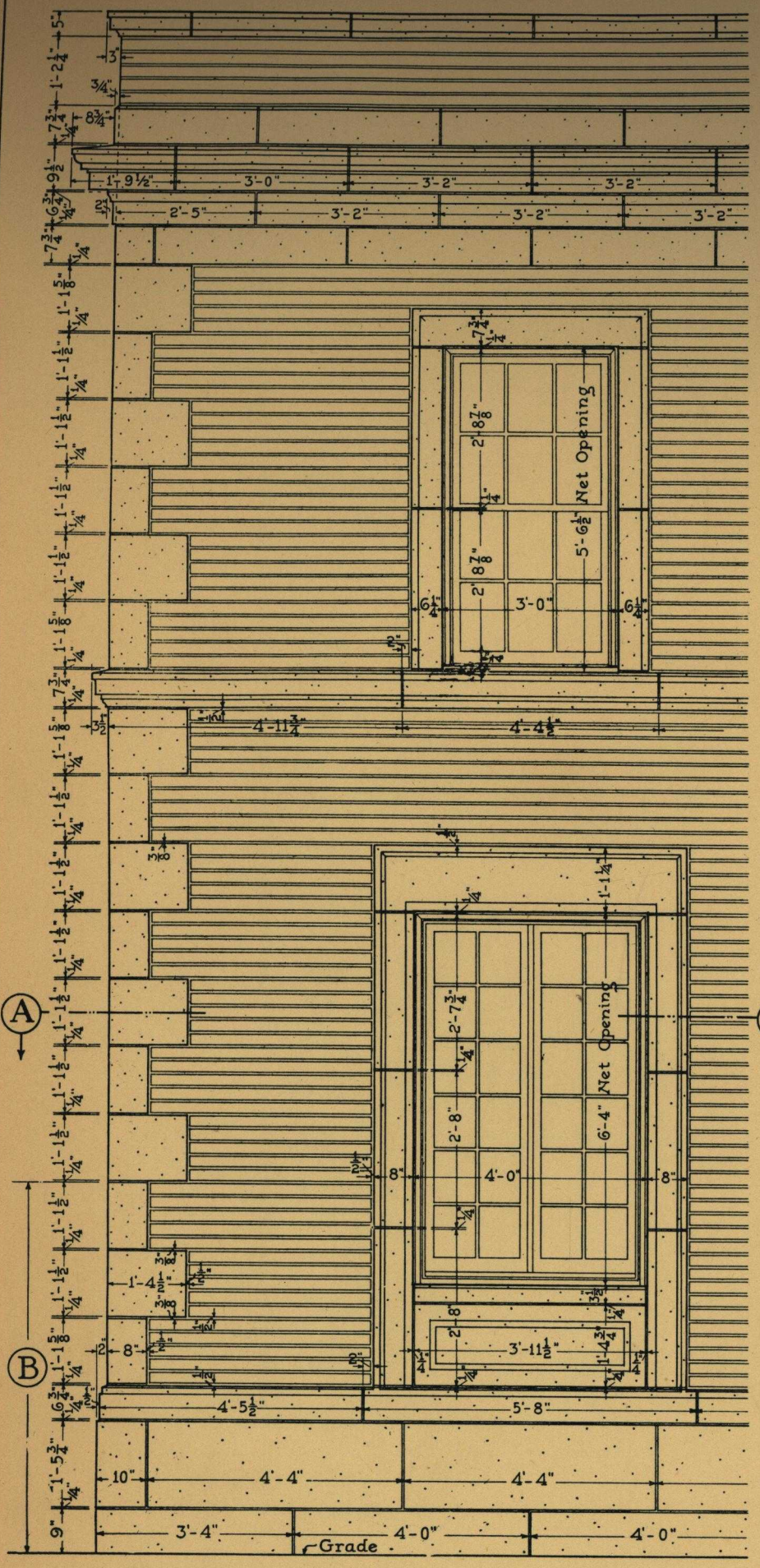

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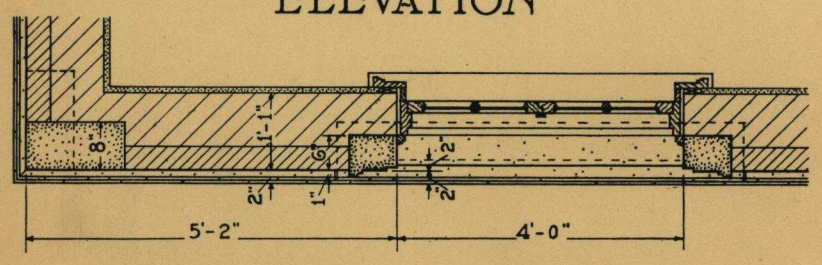

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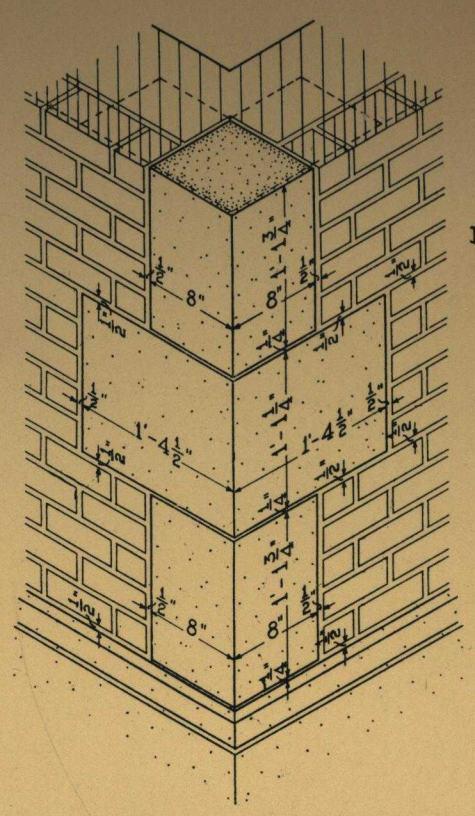
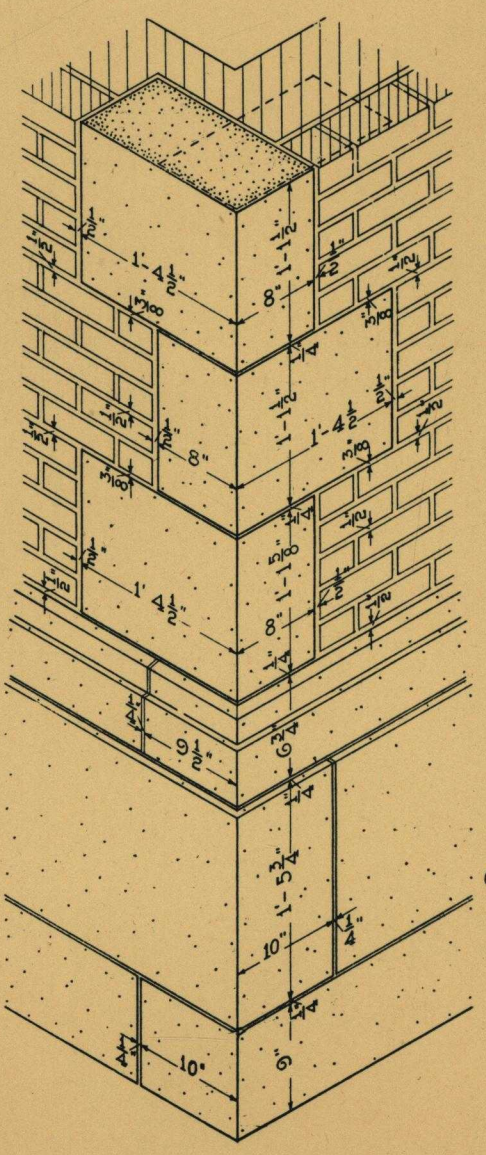
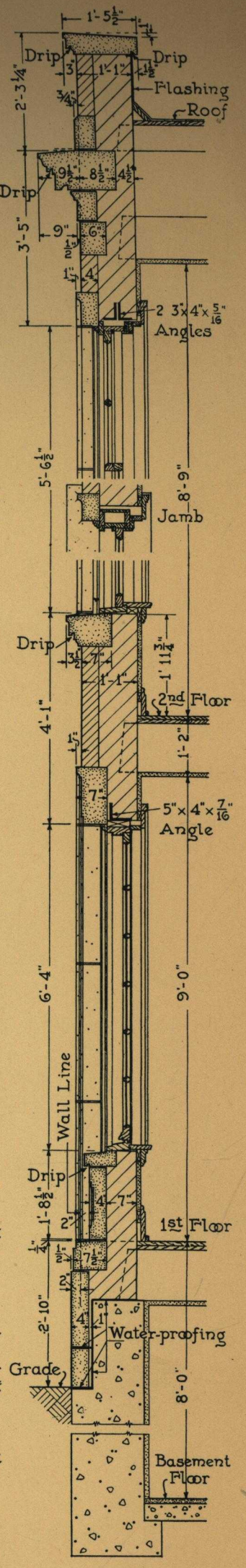


ALTERNATE TYPE OF QUOINS



ISOMETRIC VIEW OF QUOINS AT (B)



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ILCO DETAILS
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STONE TRIM

Corner Quoins, Window Trim and Horizontal Courses

DRAWING Φ-2

Binder File Classification } 26.1

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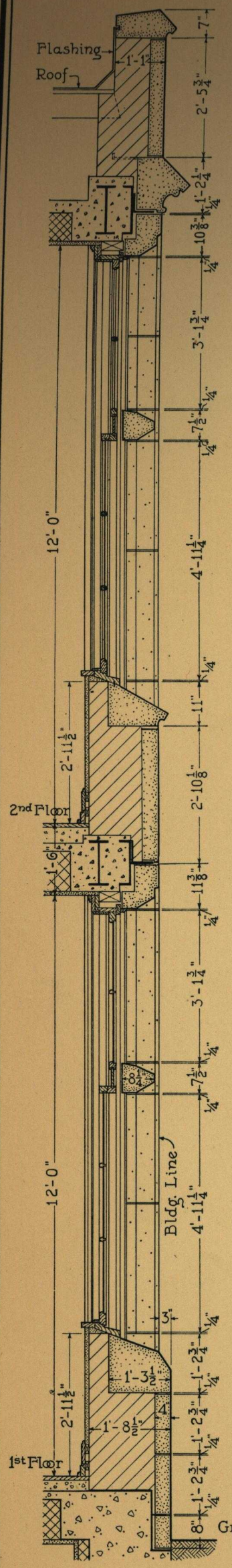

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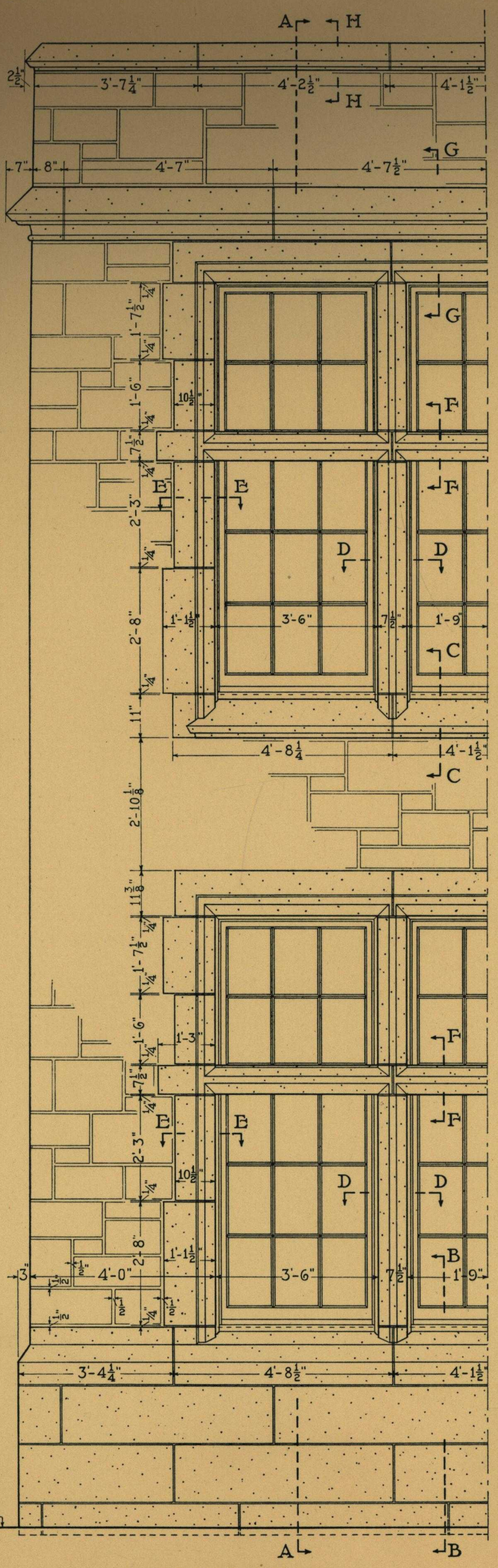

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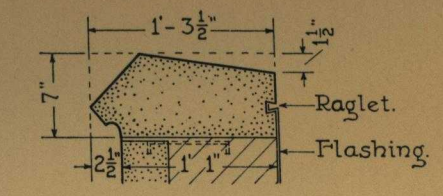

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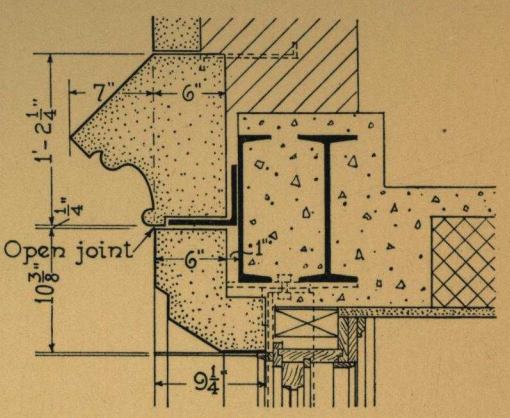

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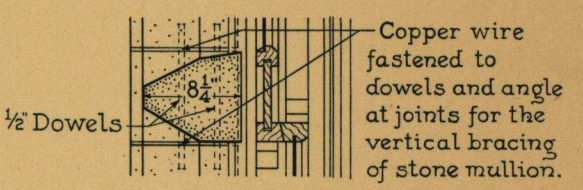

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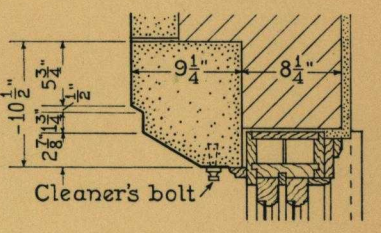
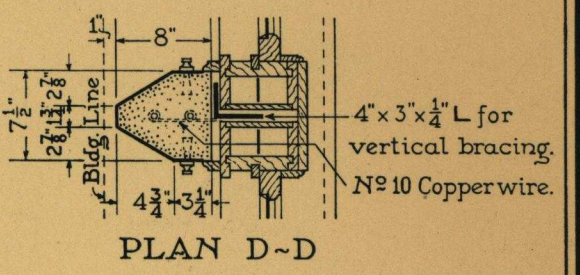


PLAN E~E



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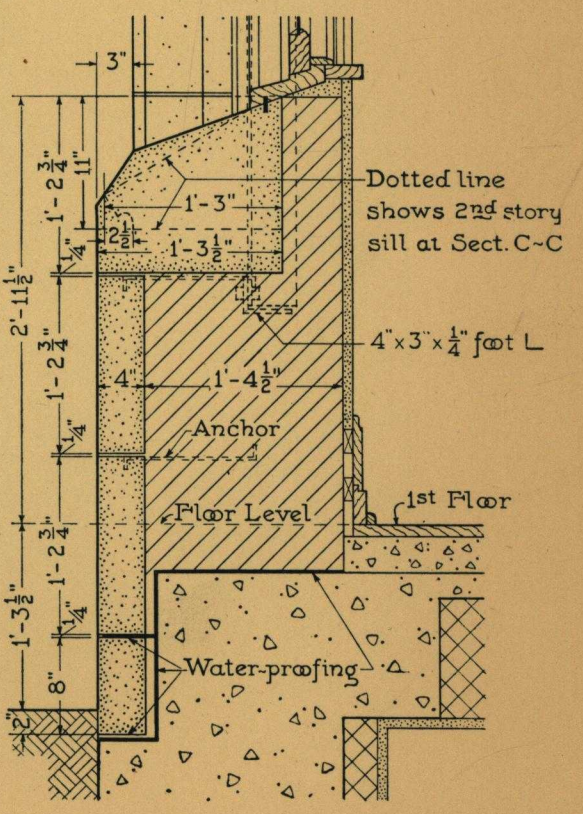

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REGISTRATION APPLIED FOR

WINDOW TRIM

Grouped Double-hung Windows for Collegiate Gothic style School Buildings

DRAWING ID-3

Binder File Classification } 43.1

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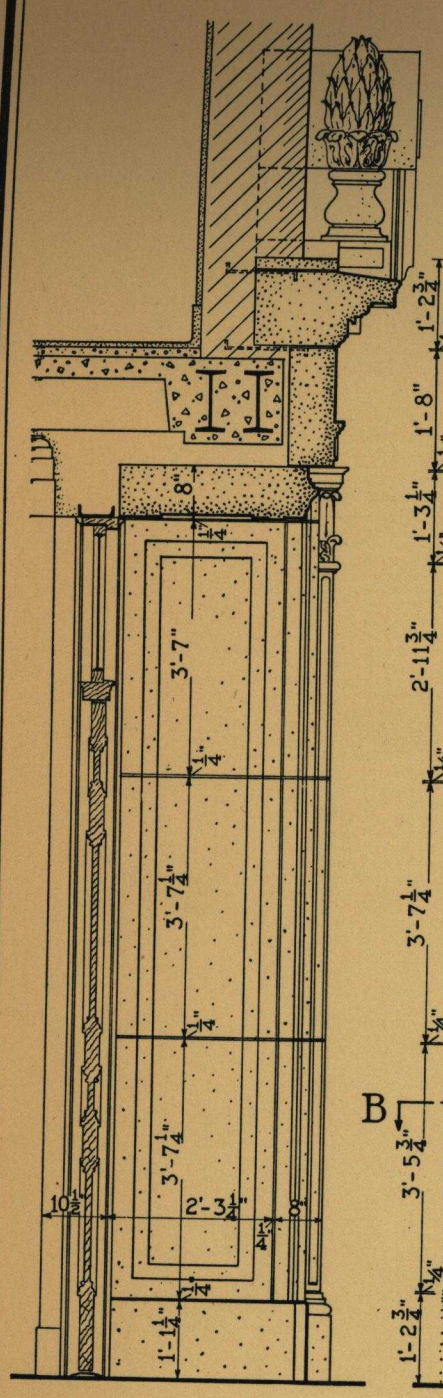

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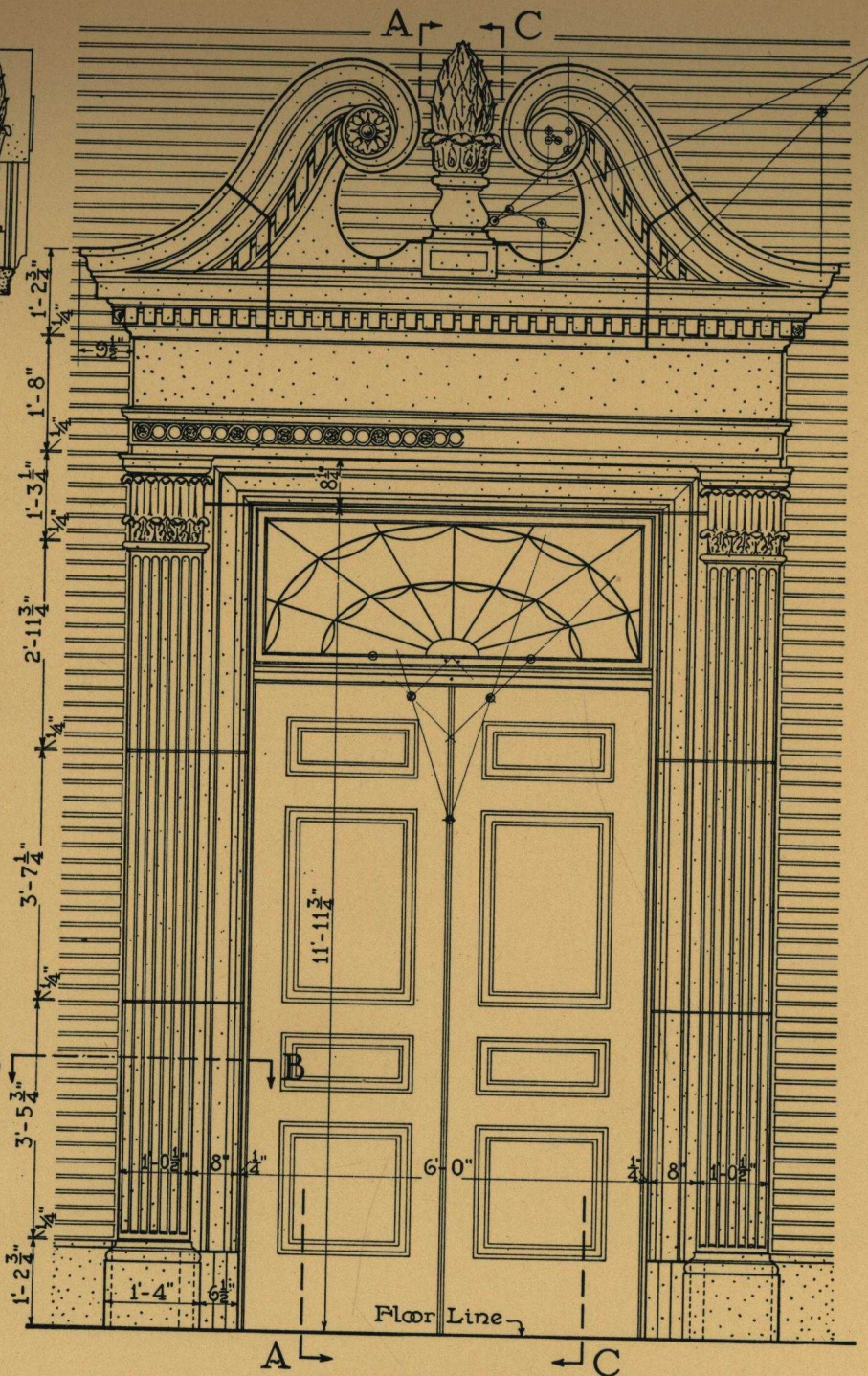

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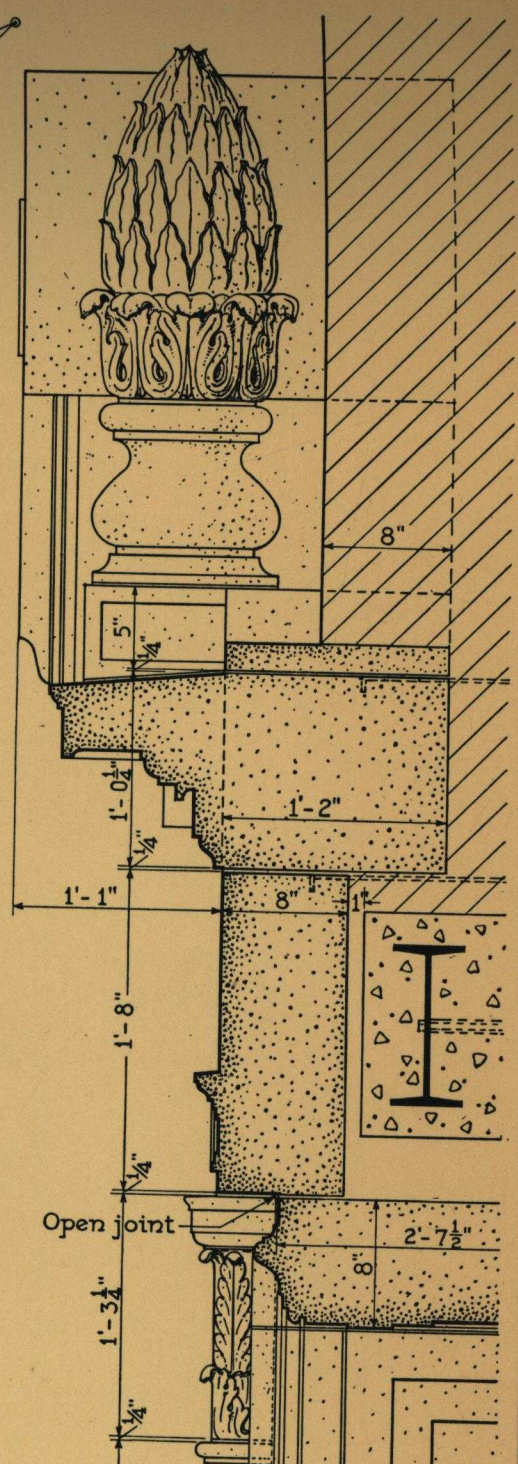

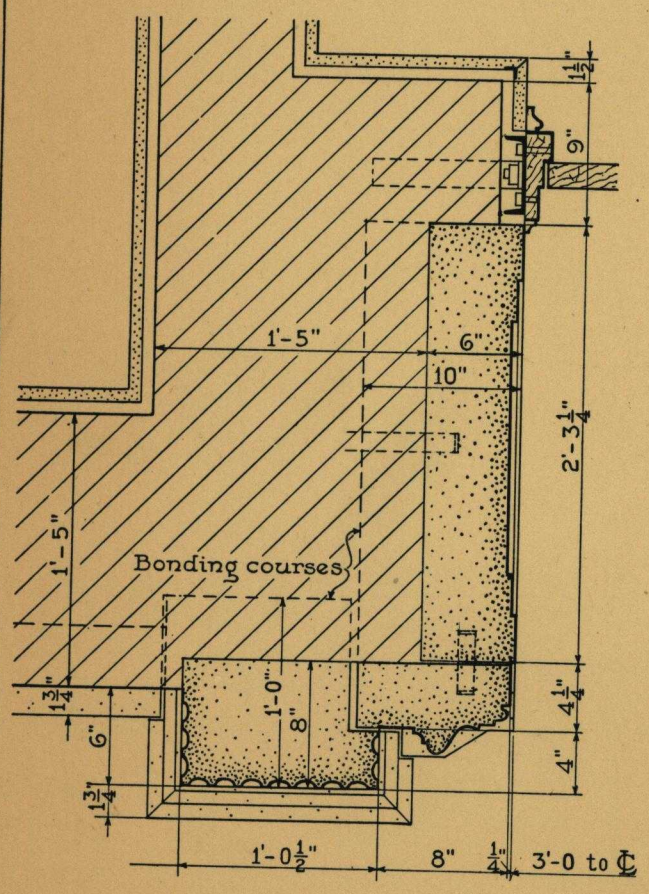

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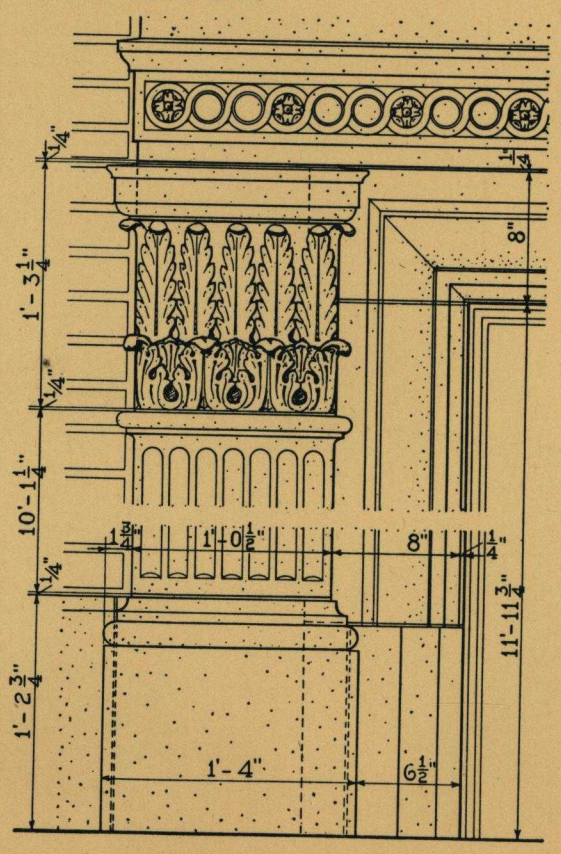

ELEVATION OF BASE AND CAP

SECTION C-C

ILCO DETAILS
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ENTRANCE

Georgian Colonial Entrance Feature

DRAWING Φ-4

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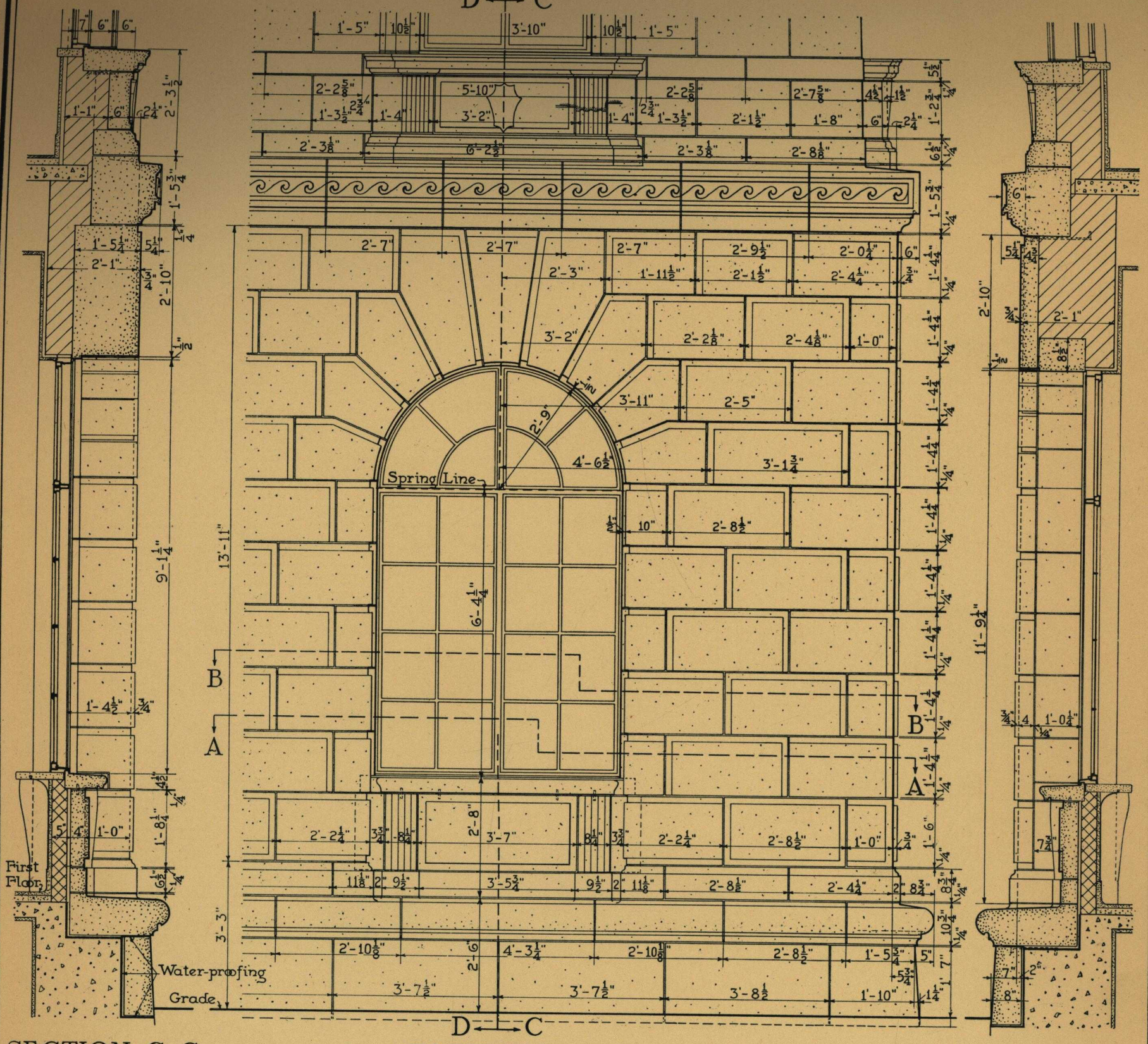

SECTION C~C

ELEVATION

SECTION D~D
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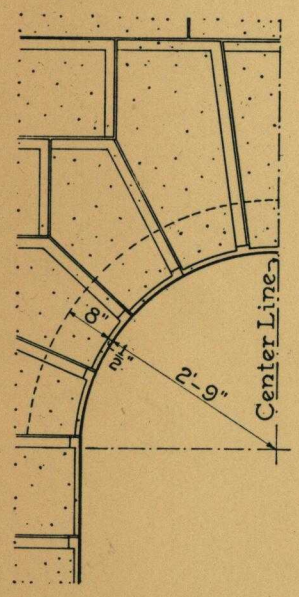

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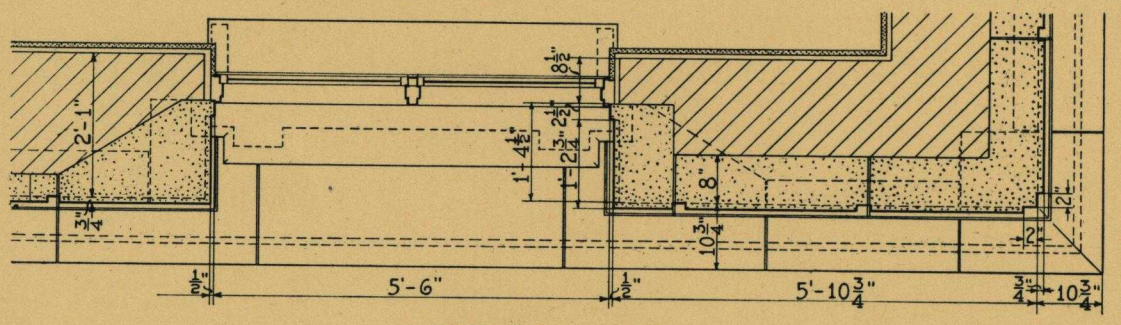

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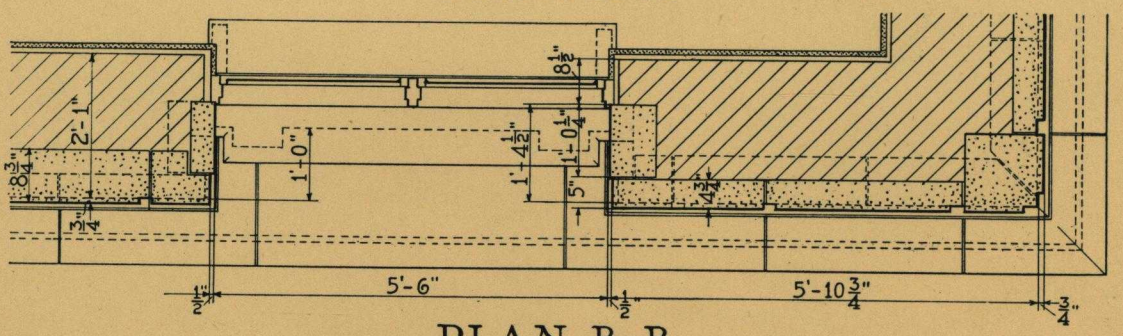

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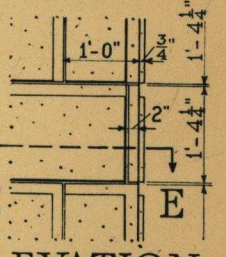

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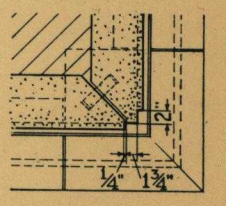

PLAN E~E

ILCO DETAILS
REGISTRATION APPLIED FOR

RUSTICATED ASHLAR

Channel-groove Rusticated Ashlar, in Renaissance style, showing two types of construction

DRAWING Φ-5

Binder File Classification } 23.1

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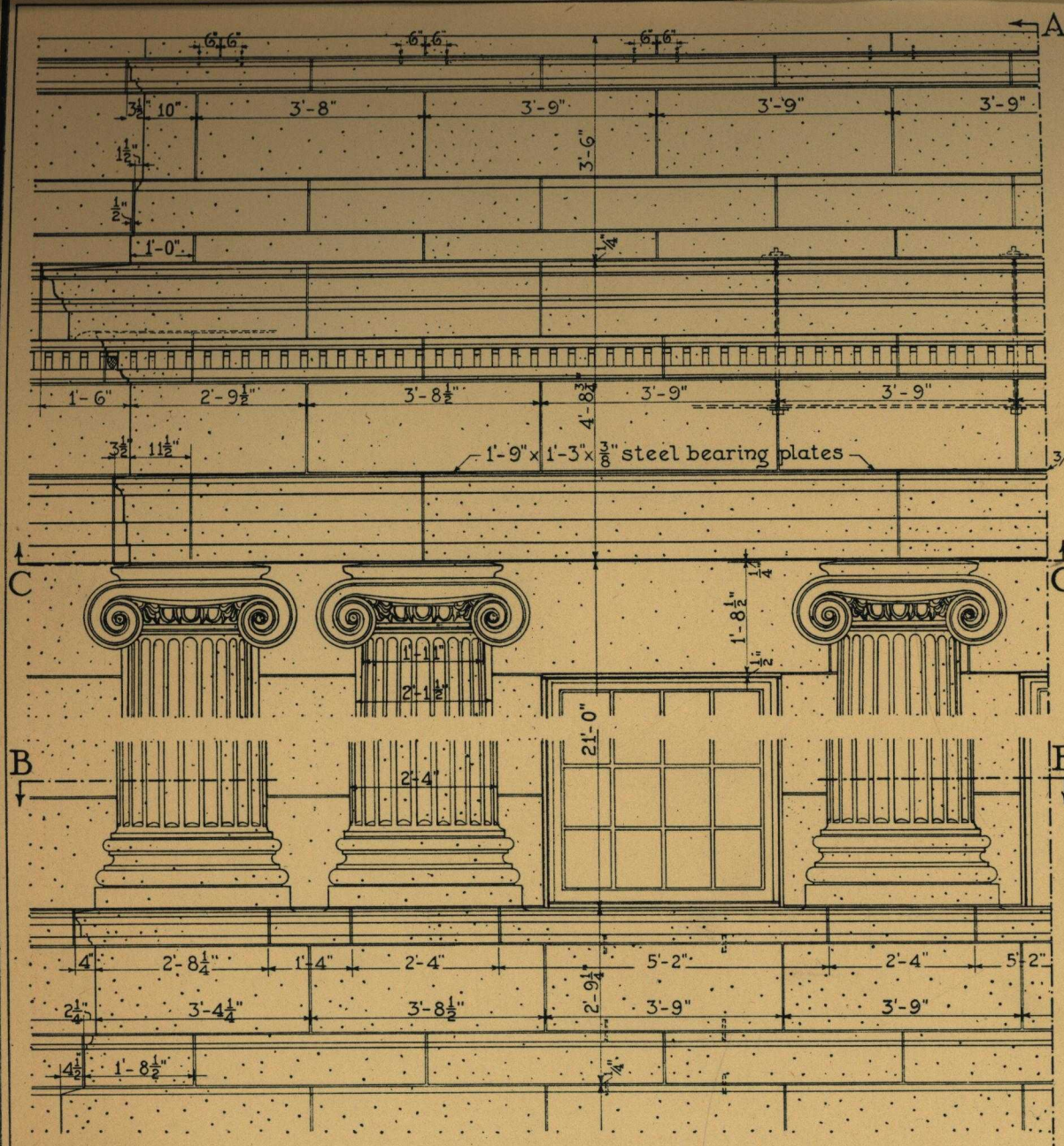

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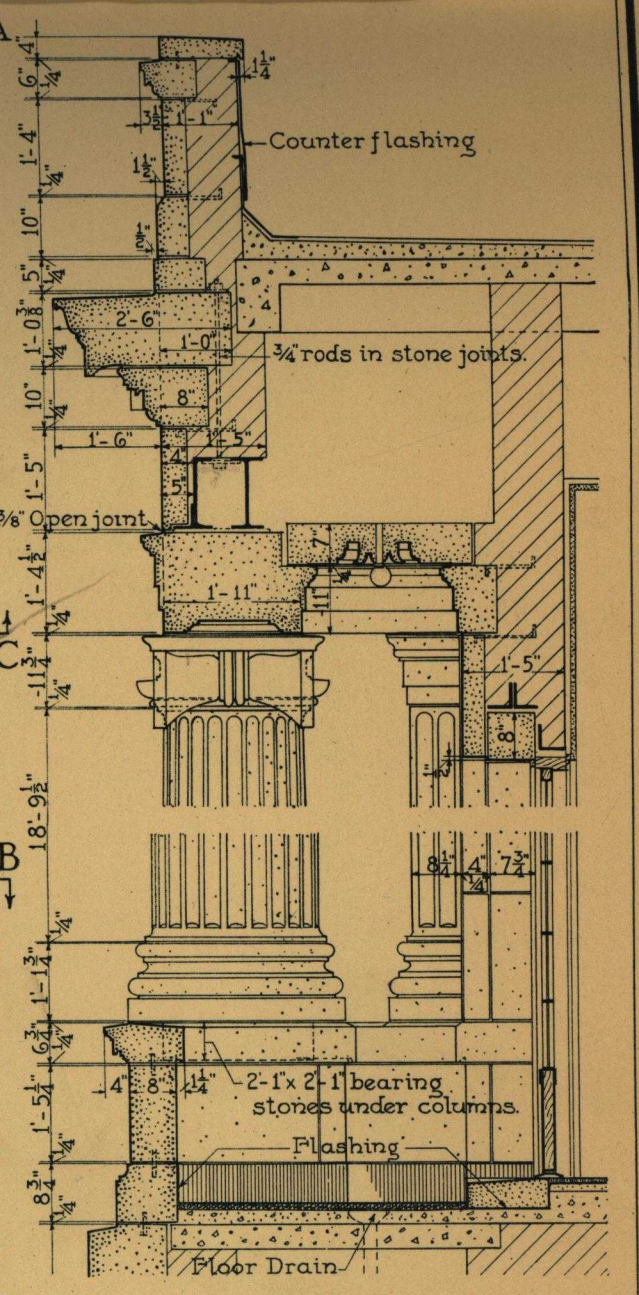

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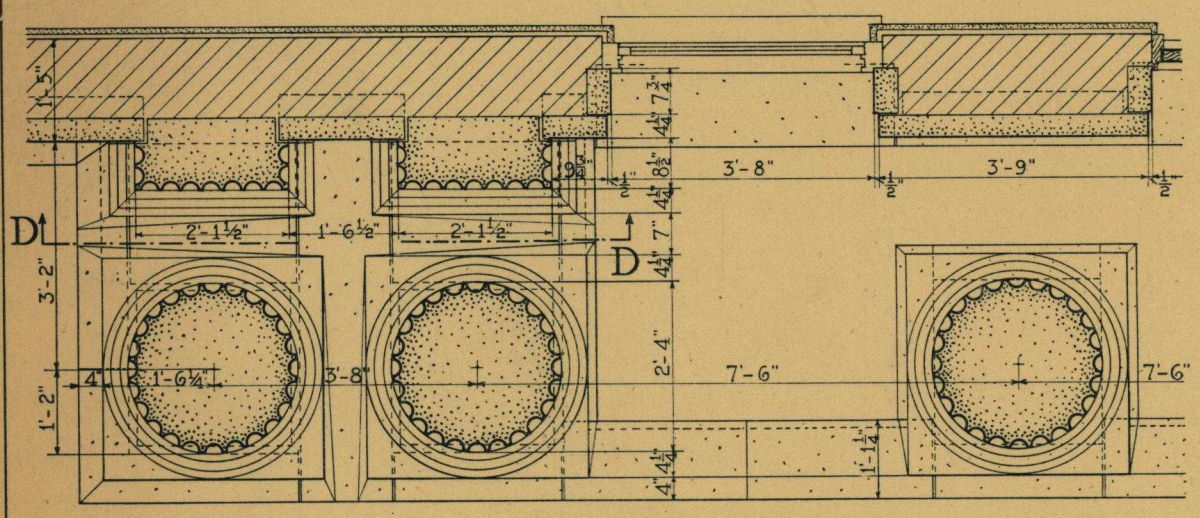

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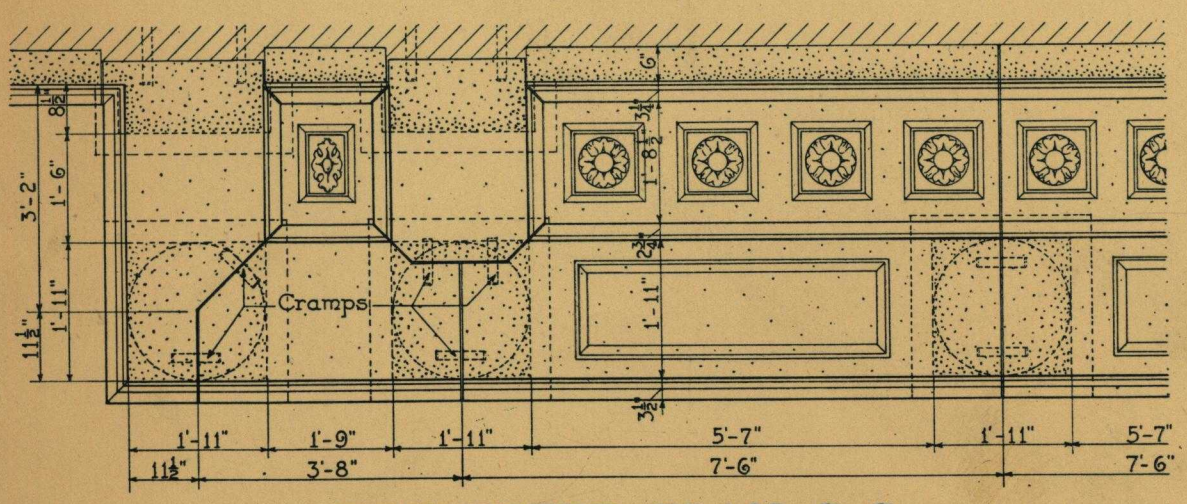

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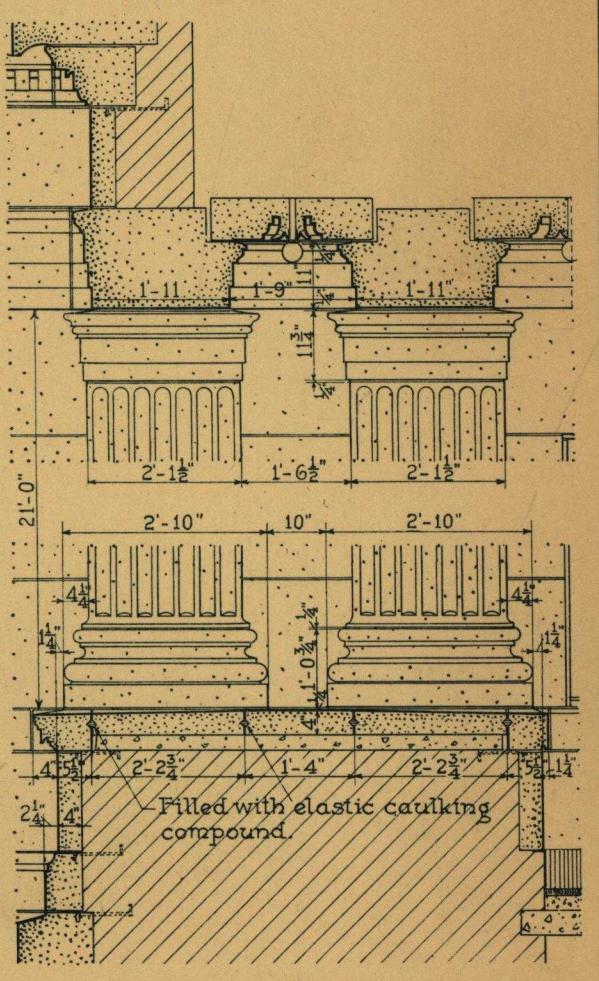

SECTION D-D

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

ENTABLATURE

Classic Entablature with Parapet, supported on Free standing Columns.

DRAWING Φ-6

Binder File Classification } 22.1

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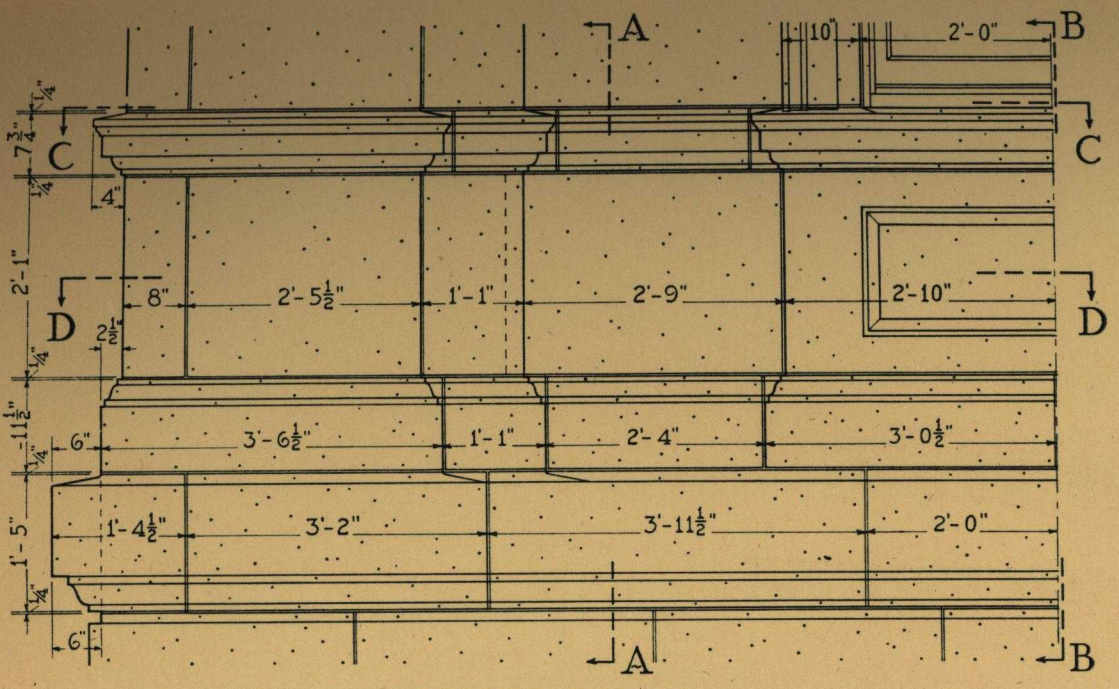

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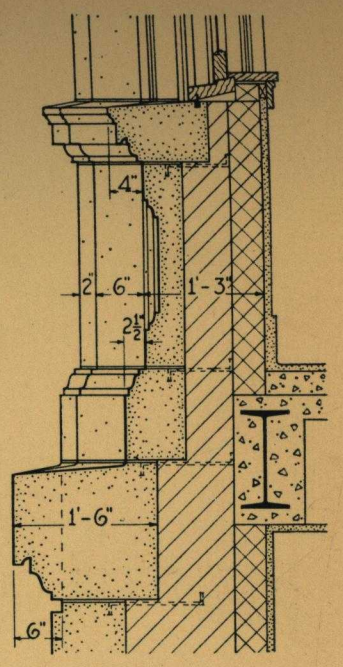

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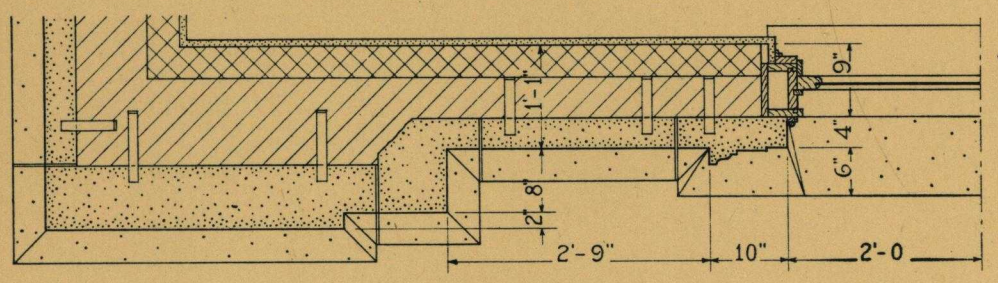

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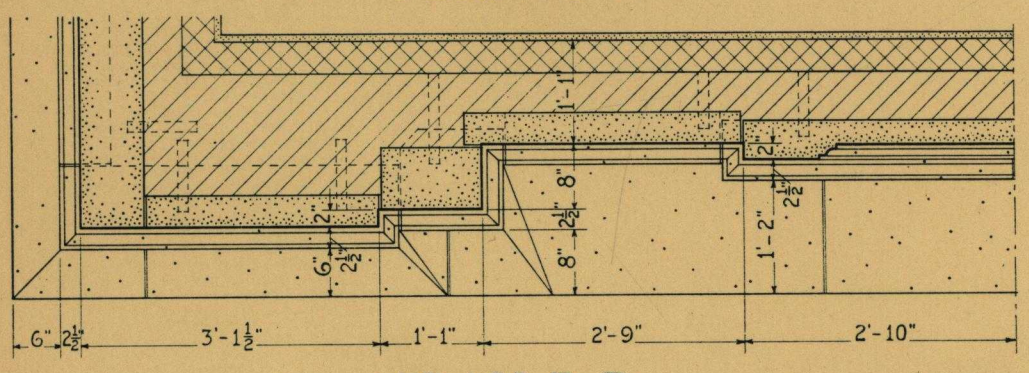

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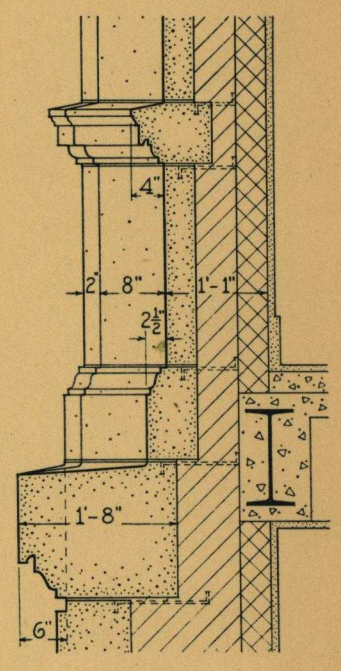

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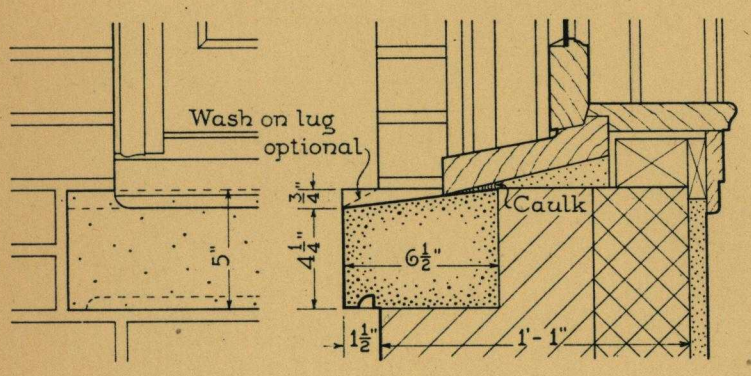

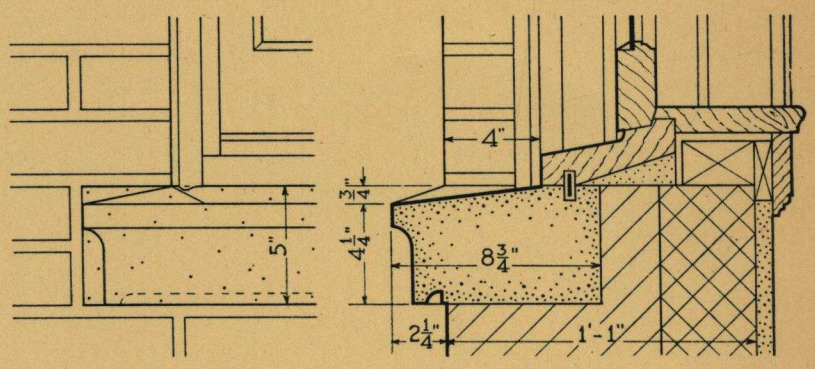

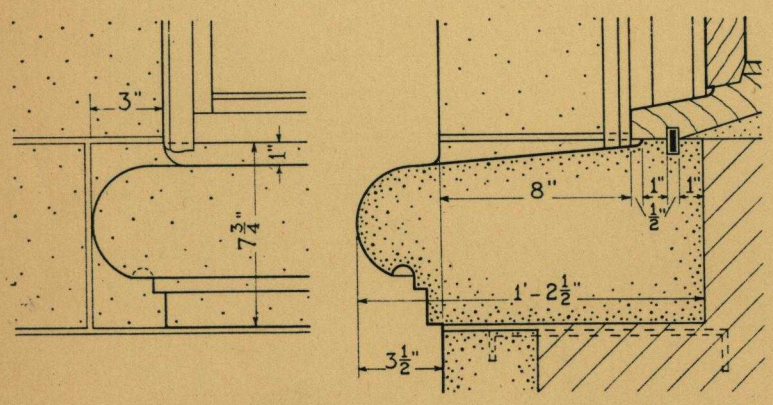

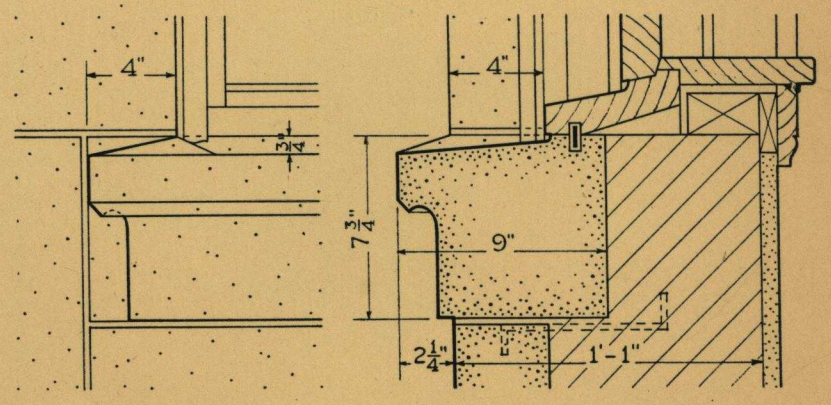

ELEVATIONS & SECTIONS OF ISOLATED WINDOW SILLS.

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

WINDOW SILLS

Belt Courses and Sills for Wood Frame Windows

DRAWING Ф-7

Binder File Classification } 86.1

February 1, 1930

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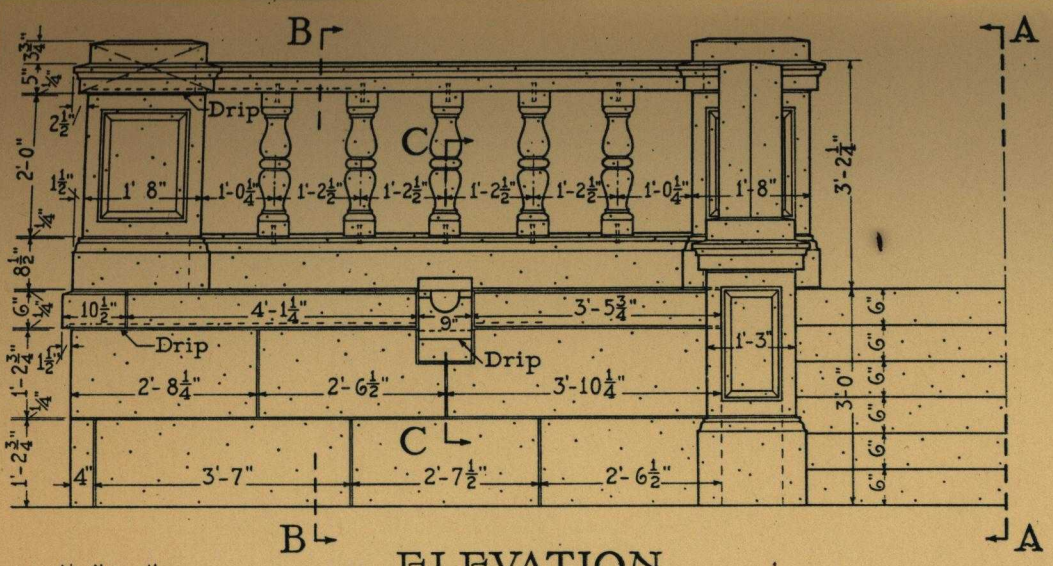

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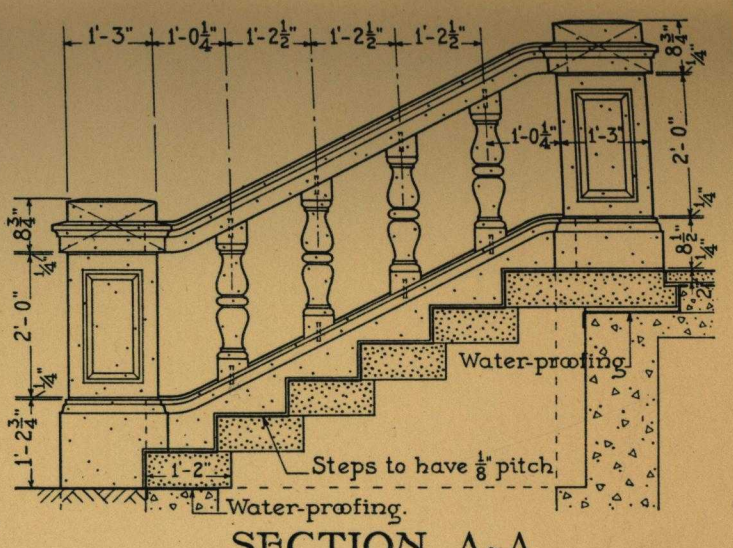

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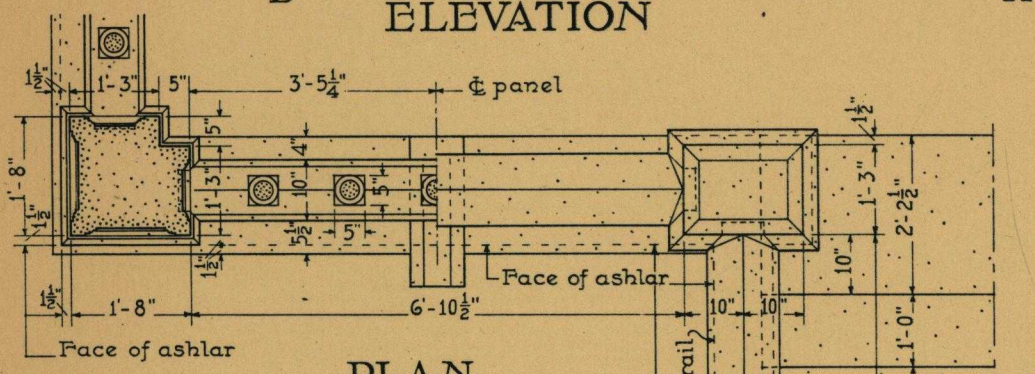
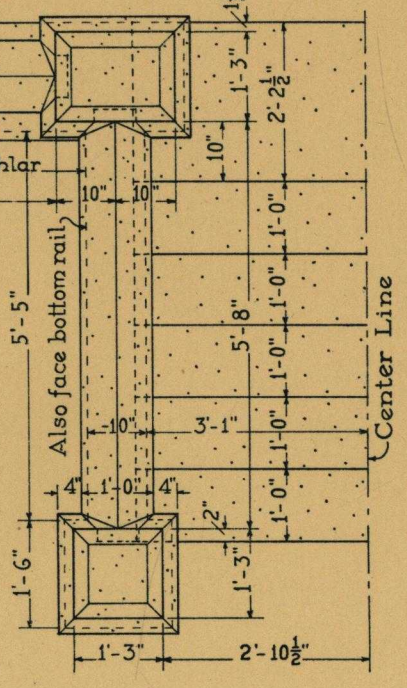
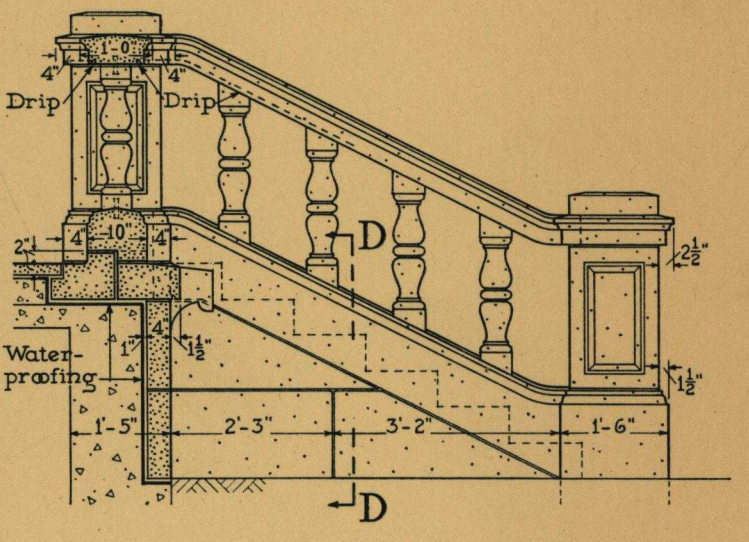
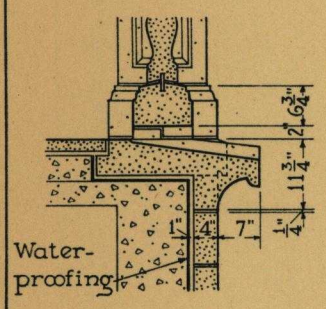


PLAN

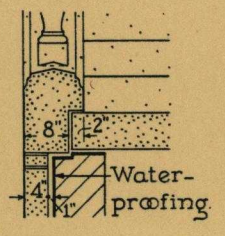




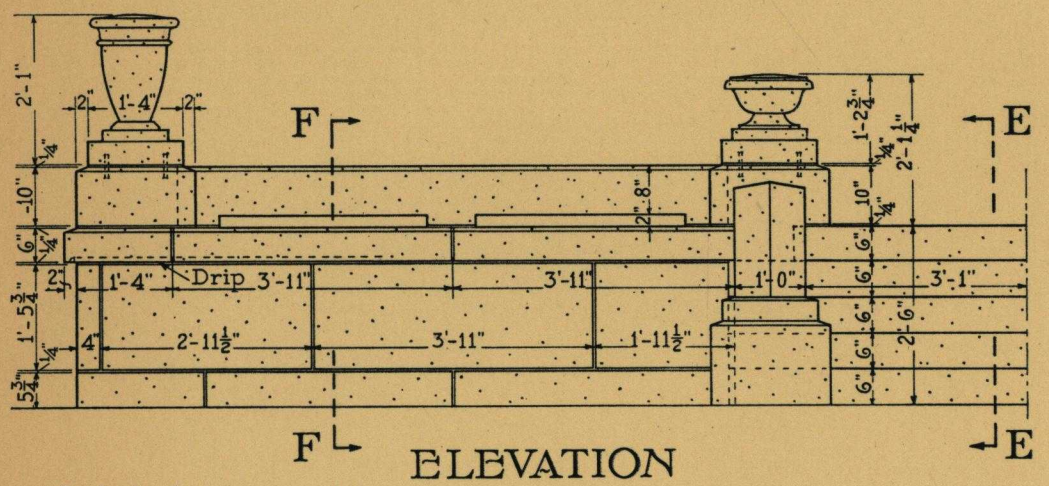
SECTION B~B



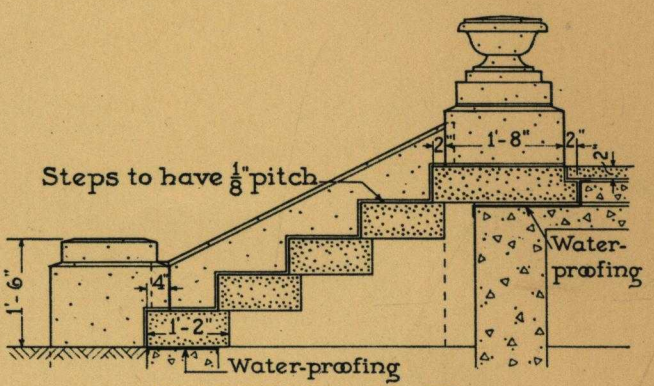
SECTION C~C



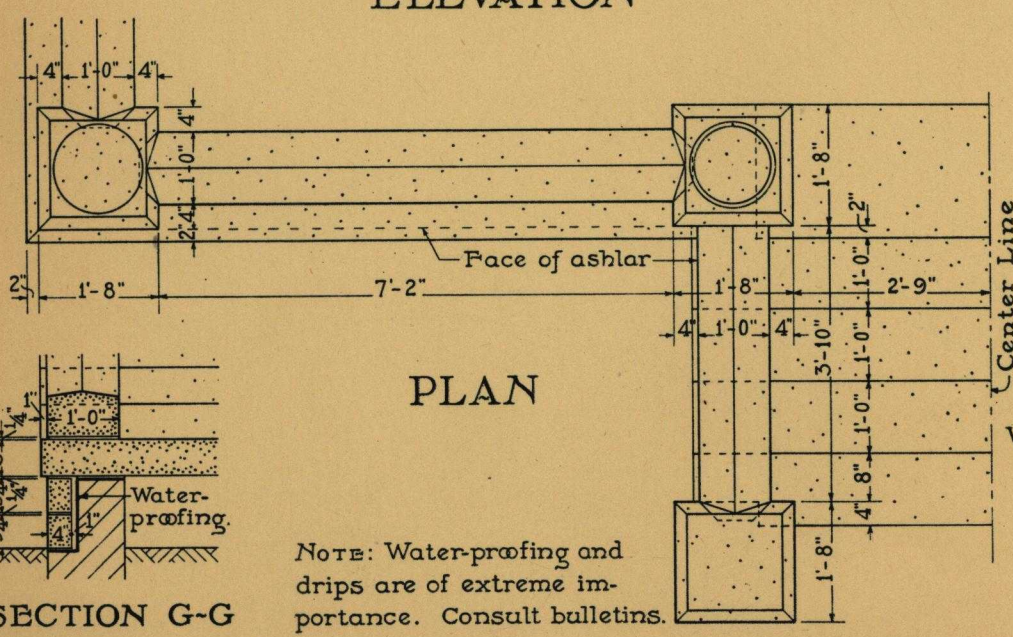
SECTION D~D



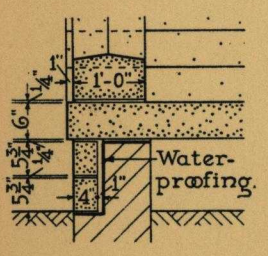
ELEVATION



SECTION E~E

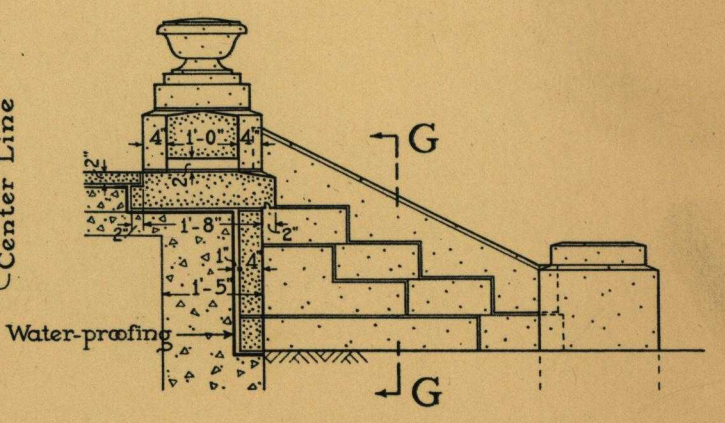


PLAN



SECTION G~G

NOTE: Water-proofing and drips are of extreme importance. Consult bulletins.



SECTION F~F

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

TERRACES

Step and Balustrade Construction showing protection against Staining and Efflorescence

DRAWING ID-8

Binder File Classification } 81.1

February 1, 1930

INDIANA LIMESTONE COMPANY - BEDFORD, INDIANA, U.S.A.

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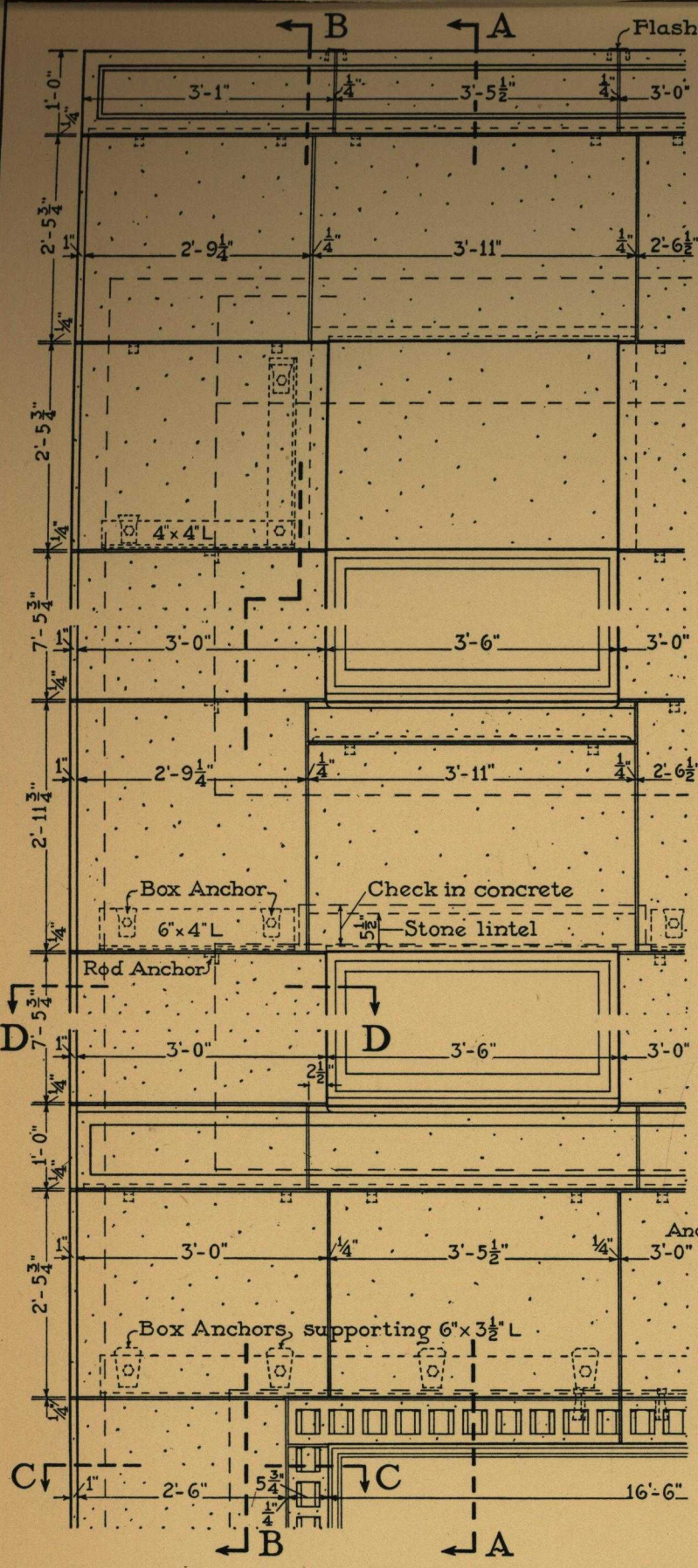
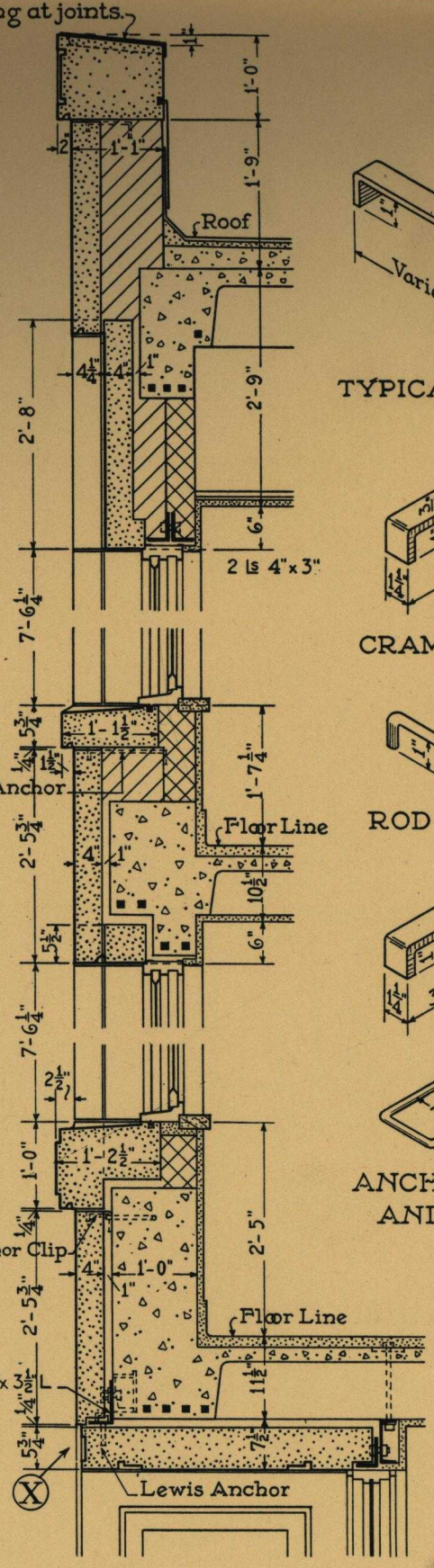
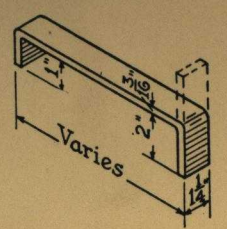


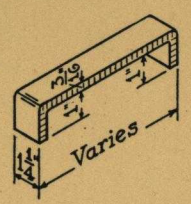
ELEVATION



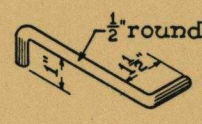
SECTION A-A



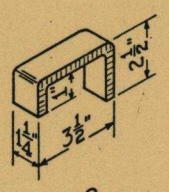
TYPICAL ANCHOR

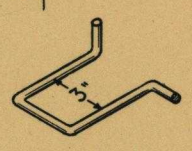


CRAMP ANCHOR

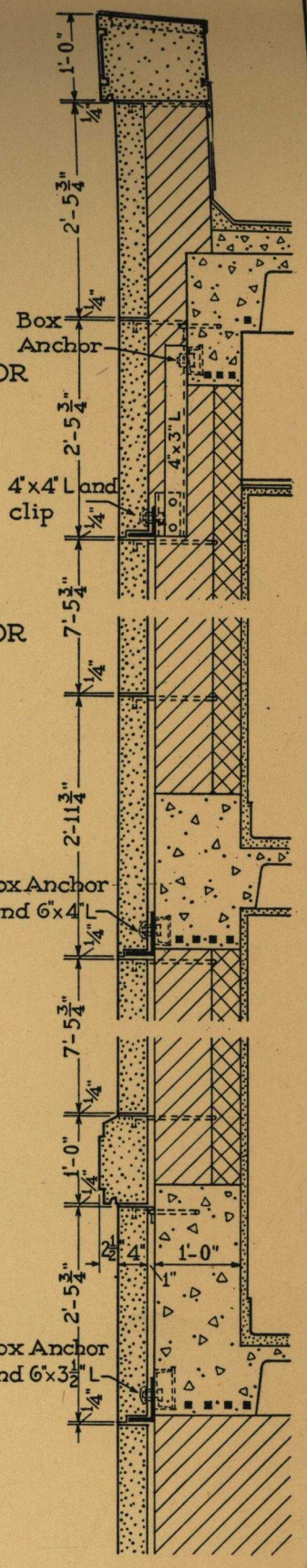


ROD ANCHOR

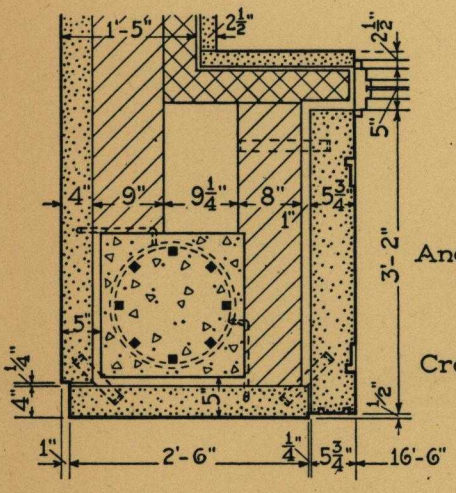




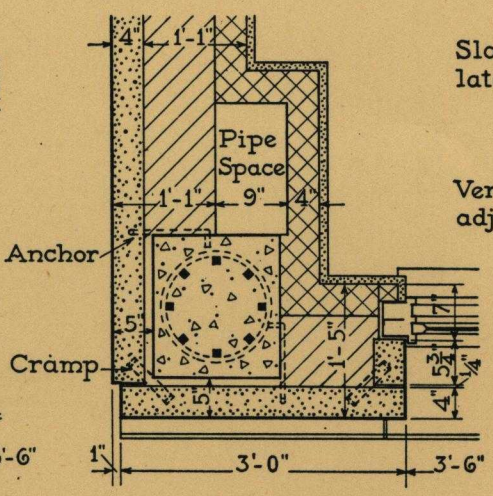
ANCHOR CLIP AND LOOP



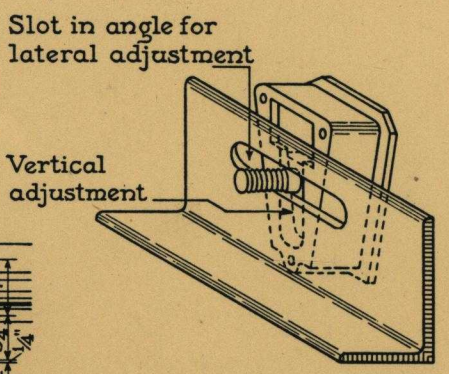
SECTION B-B



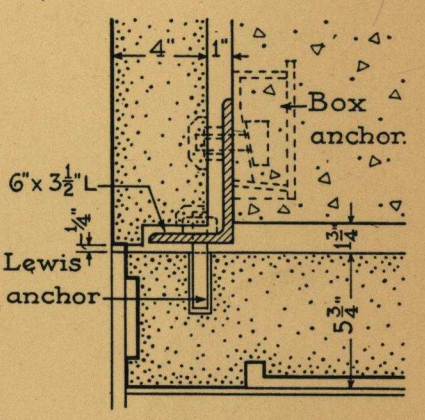
PLAN C-C



PLAN D-D



ISOMETRIC VIEW OF ANGLE & ADJUSTABLE BOX ANCHOR.



DETAIL AT (X)

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

SUPPORTS & ANCHORS

Recommended practice for Reinforced Concrete Construction

DRAWING ID-9

Binder File Classification } 82.1

April 1, 1930

INDIANA LIMESTONE COMPANY-BEDFORD, INDIANA, U.S.A.

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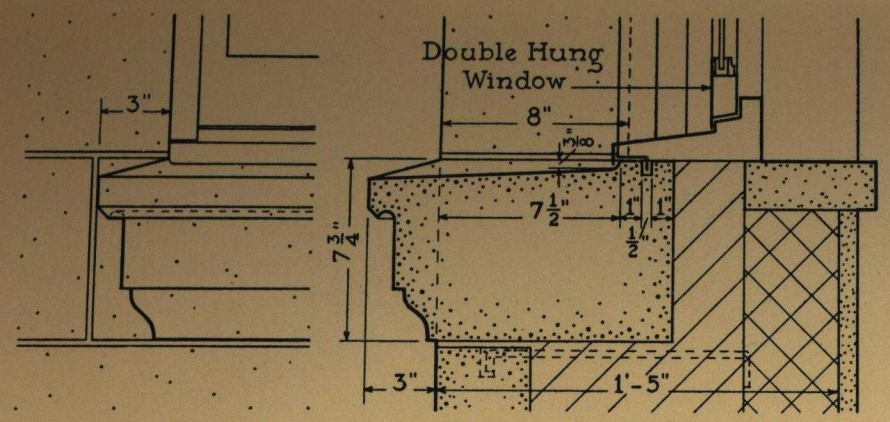
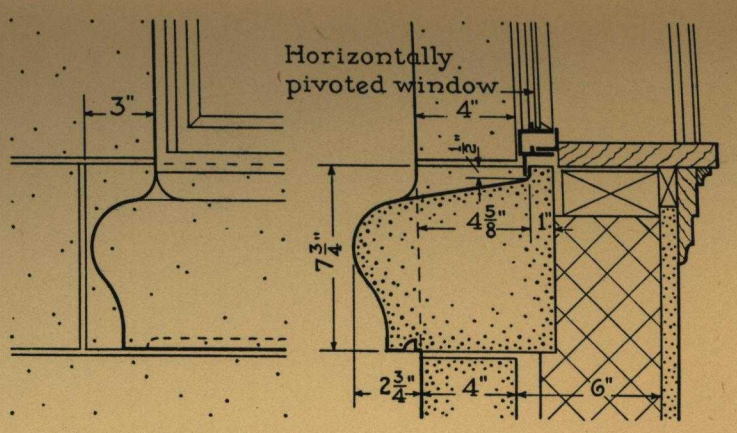
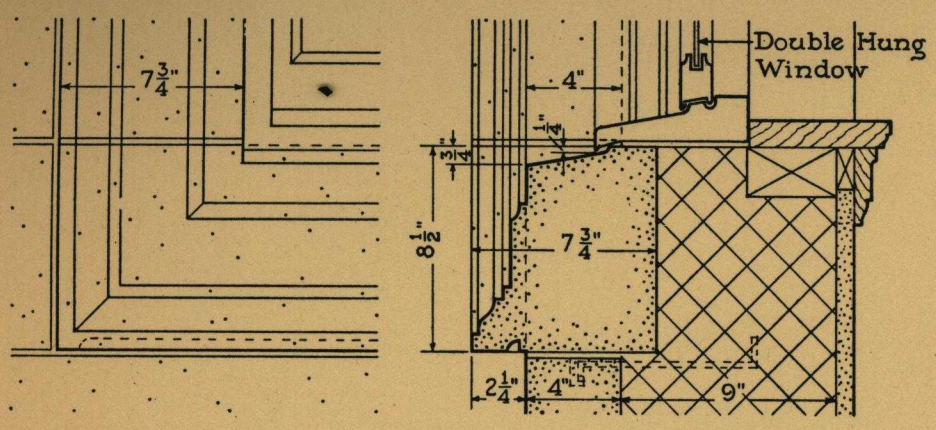
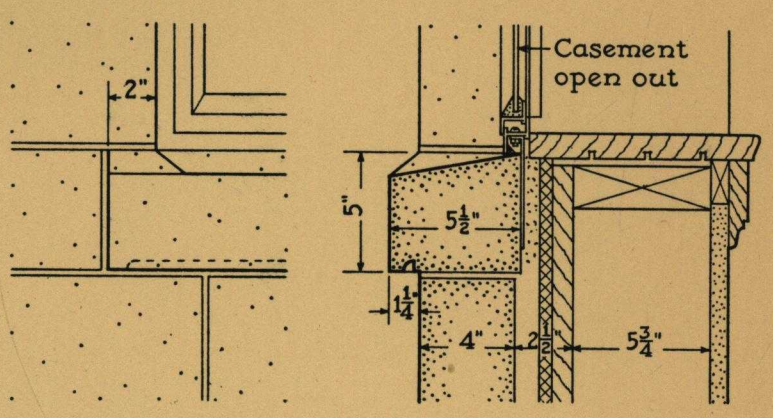


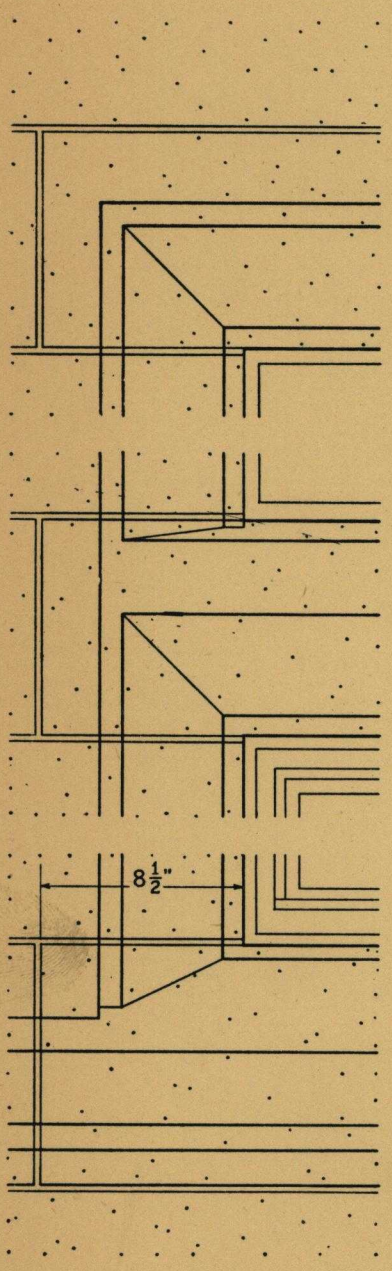




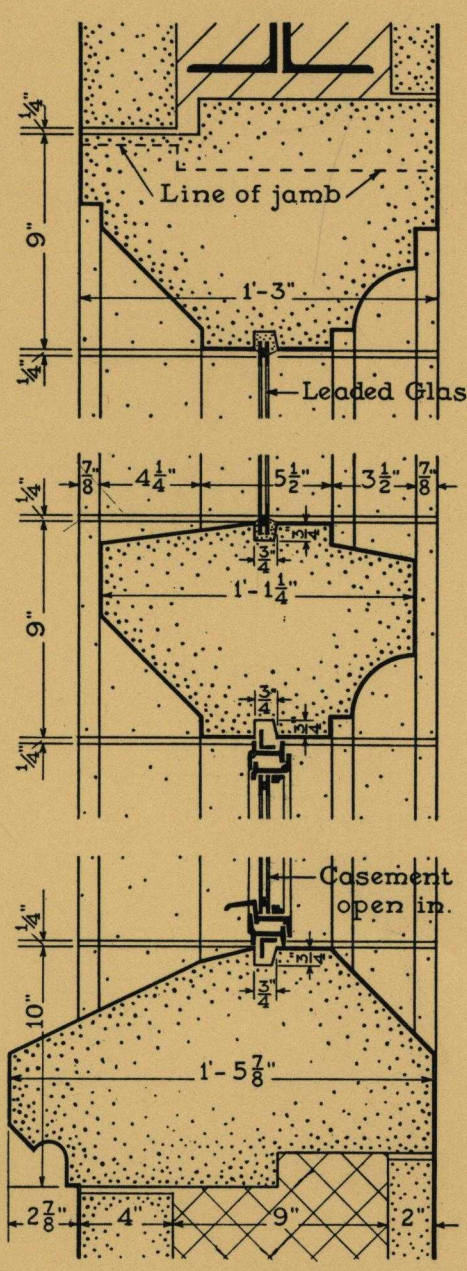


ELEVATIONS & SECTIONS OF WINDOW SILLS

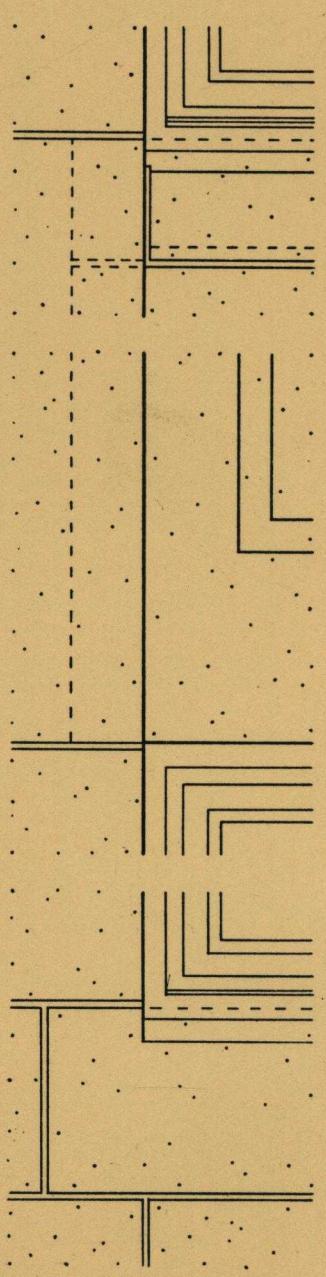
Note: Details of sills are governed by the type of steel windows used.



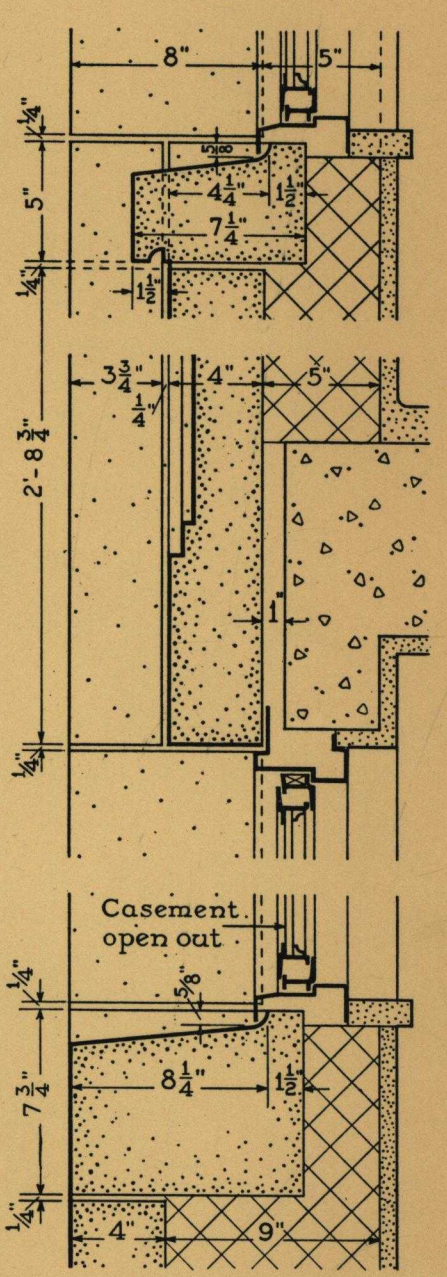
ELEVATION



SECTION



ELEVATION



SECTION

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

WINDOW TRIM

Sills, Jambs and Lintels for Metal Frame Windows

DRAWING Φ-10

Binder File Classification } 86.2

April 1, 1930.

INDIANA LIMESTONE COMPANY-BEDFORD, INDIANA, U.S.A.

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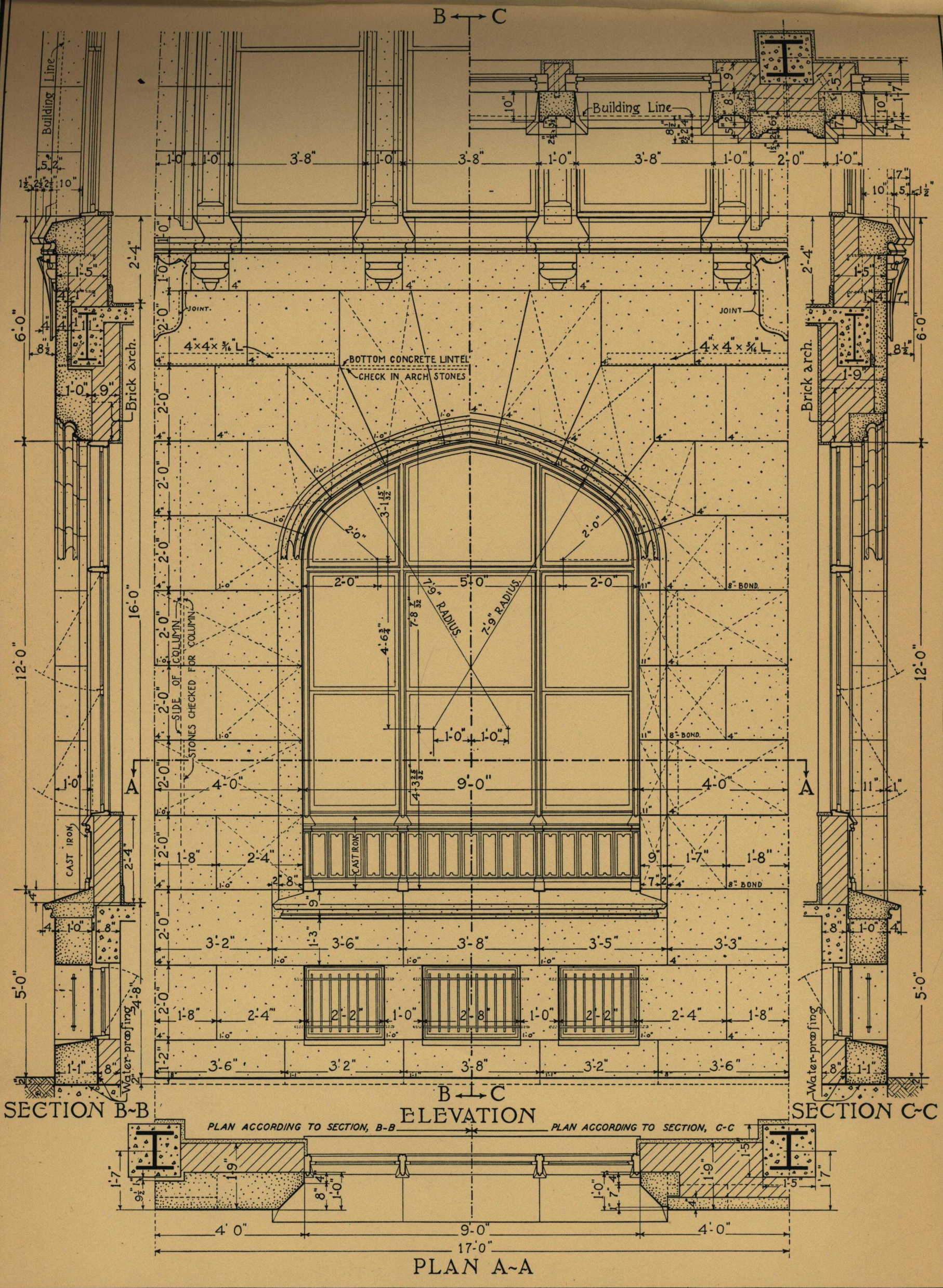

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

JAMBS & ARCHES

Showing two types of Construction

DRAWING Φ-11

Binder File Classification } 85.1

April 1, 1930

INDIANA LIMESTONE COMPANY - BEDFORD, INDIANA, U.S.A.

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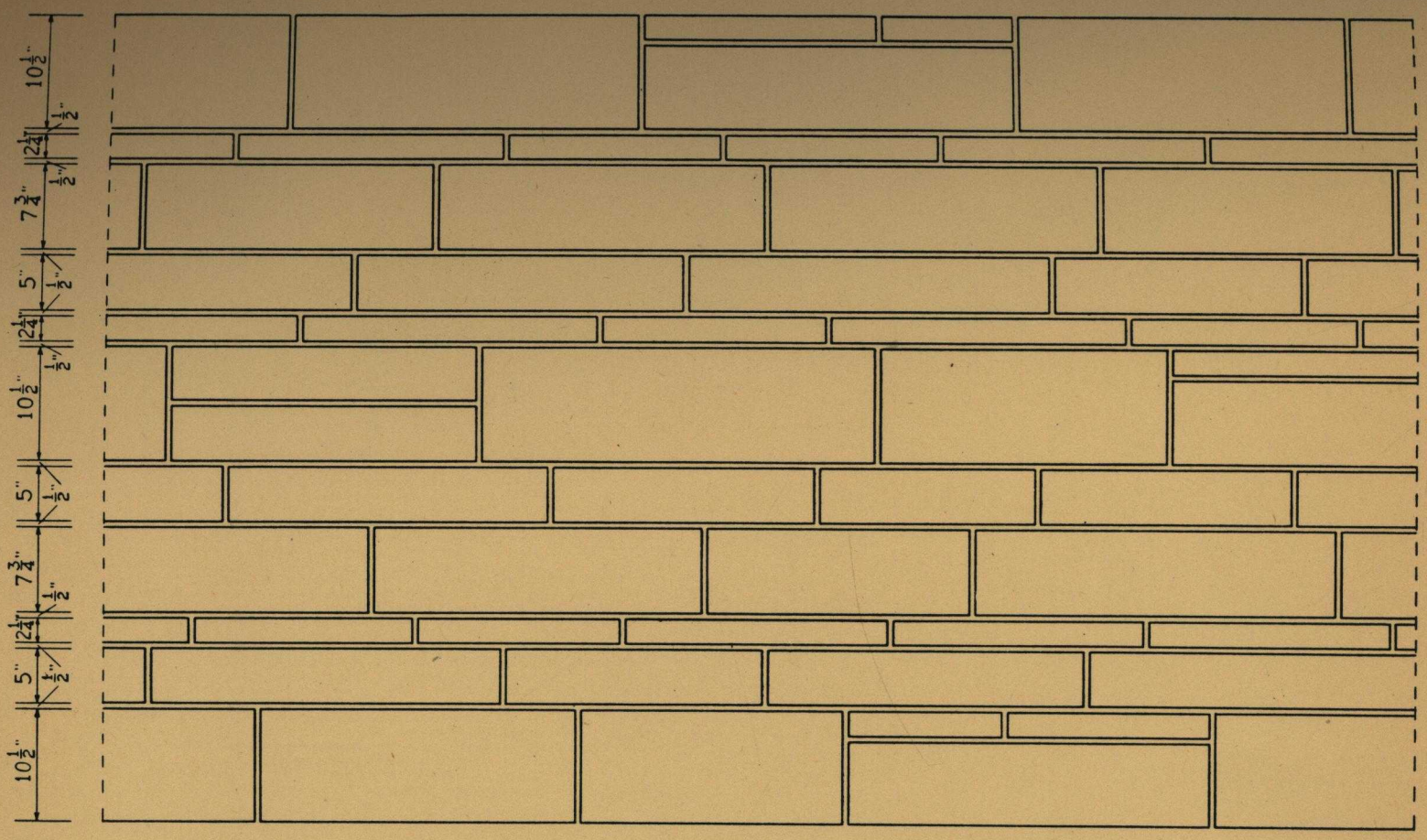
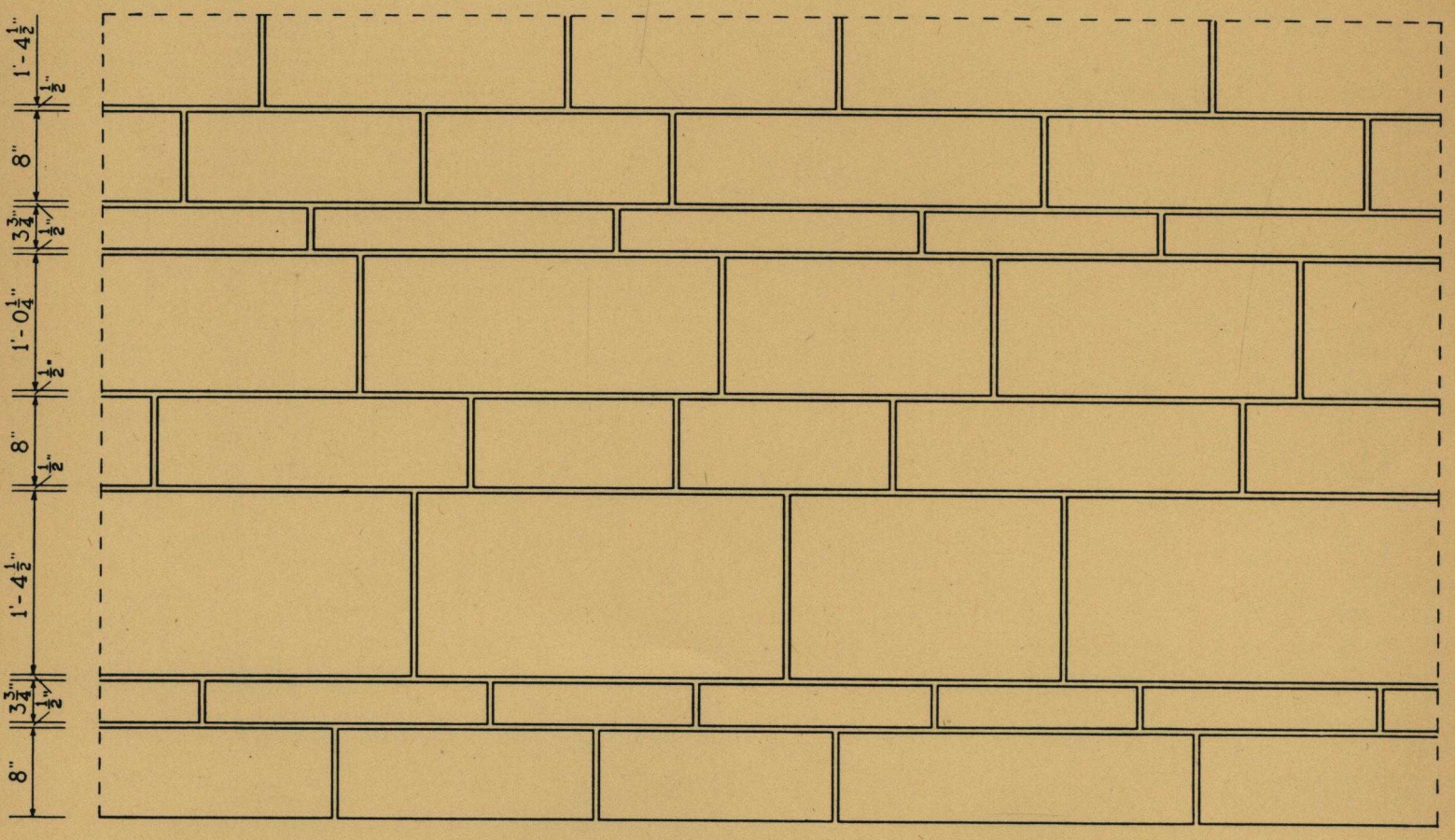


Four unit, long type range work. Average length of stones about four times their height. Joints are one half inch.



Four unit, medium type range work, illustrated in Special **ILCO** wall panel No. 21. Average length of stones about two and one half times their heights. Joints are one half inch.

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

RANGE WORK

Four unit jointing details recommended for sawed strip stone, jointed at building site.

DRAWING ID-12

Binder File Classification } 85.2

June 1, 1930

INDIANA LIMESTONE COMPANY-BEDFORD, INDIANA, U.S.A.

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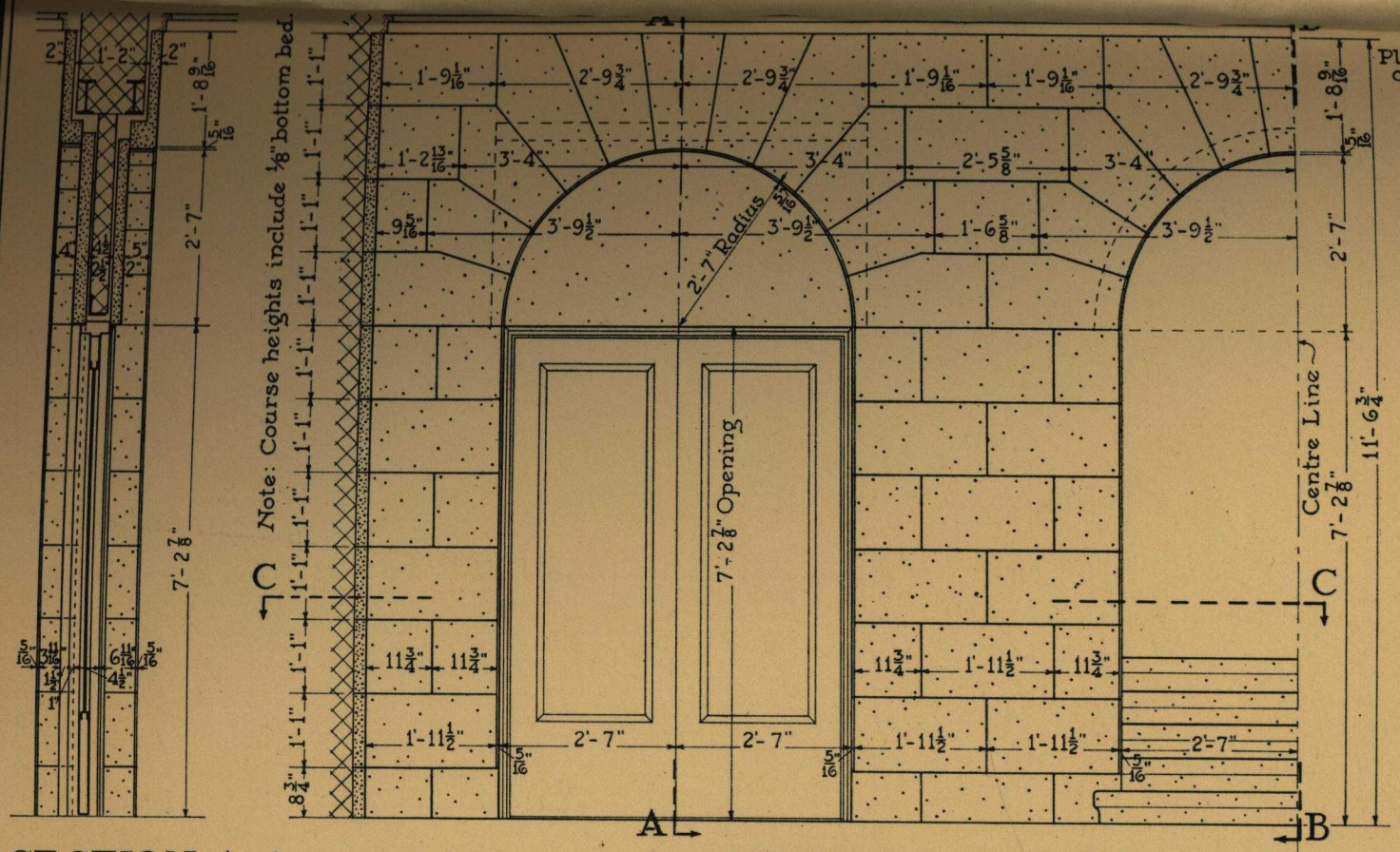
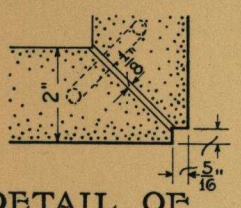


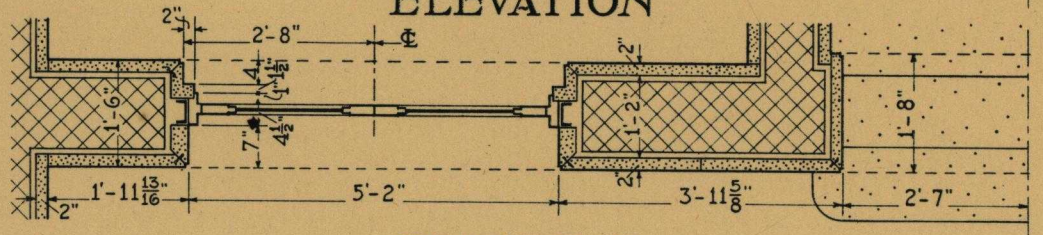
SECTION A-A

ELEVATION

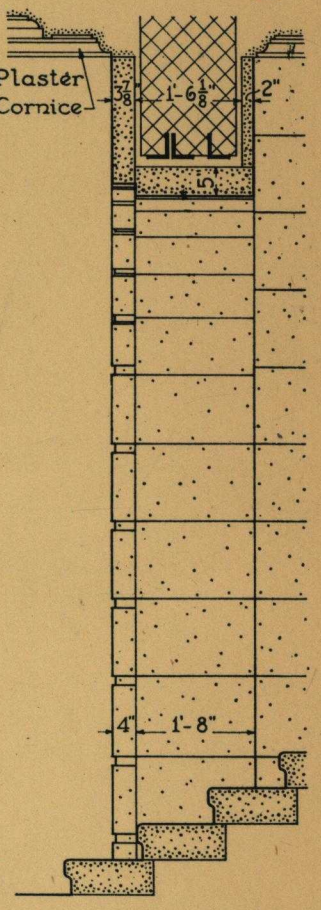
SECTION B-B



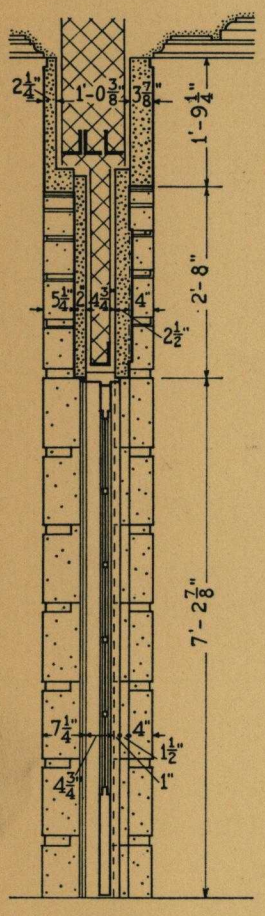
DETAIL OF QUIRK MITER JOINT

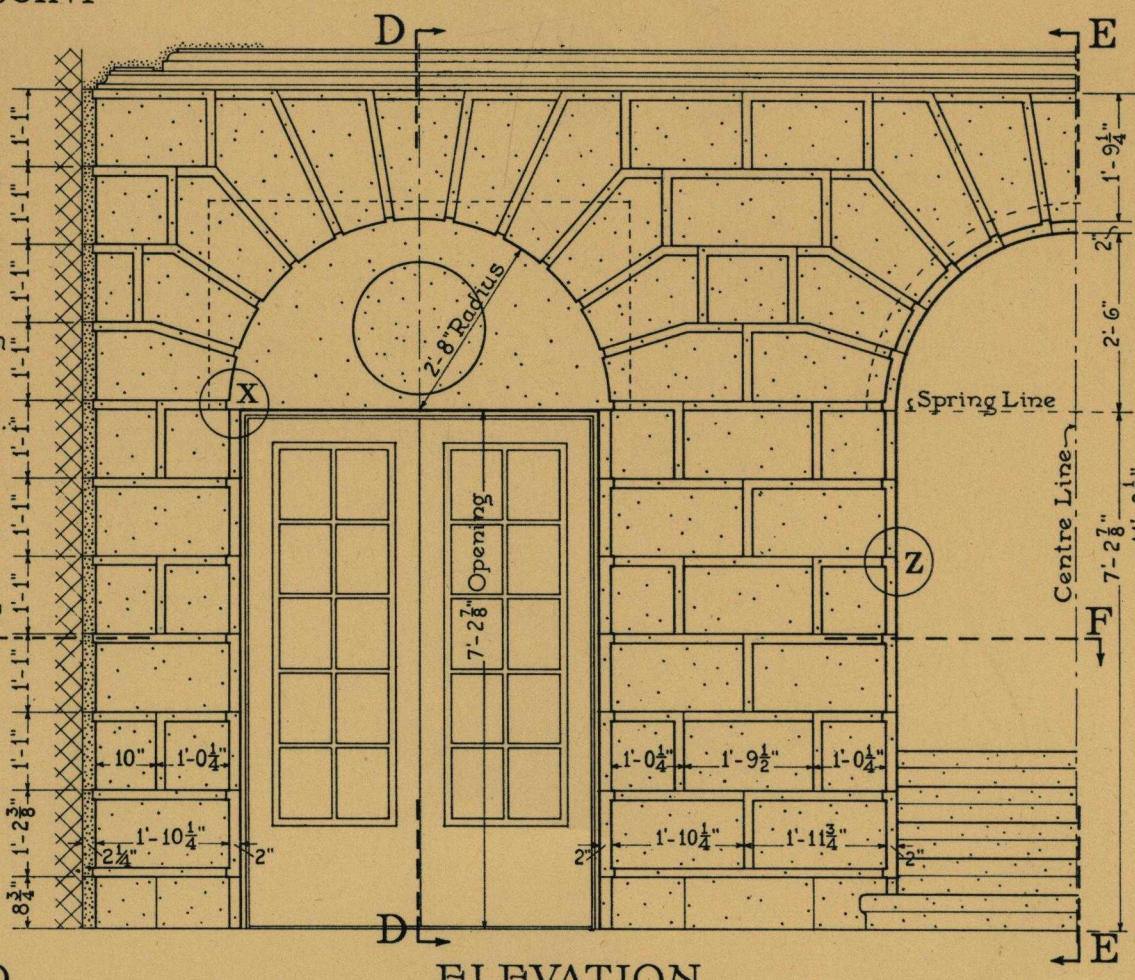


PLAN C-C



DETAIL OF JOINT AT (X)

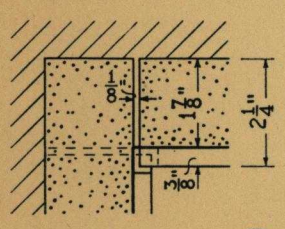




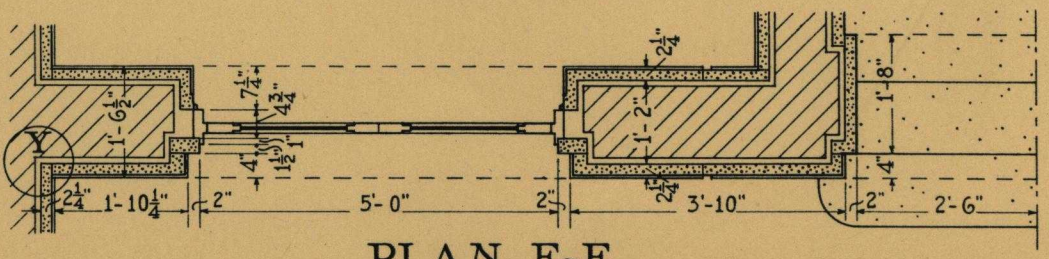
SECTION D-D

ELEVATION

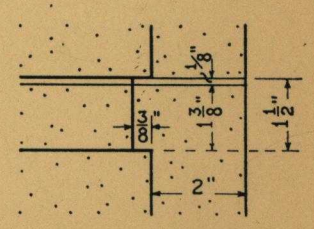
SECTION E-E



DETAIL AT (Y)



PLAN F-F



DETAIL AT (Z)

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

INTERIORS

Interior facing showing Plain and Rusticated Treatment

DRAWING Φ-13

Binder File Classification } 91.1

June 1, 1930

INDIANA LIMESTONE COMPANY-BEDFORD, INDIANA, U.S.A.

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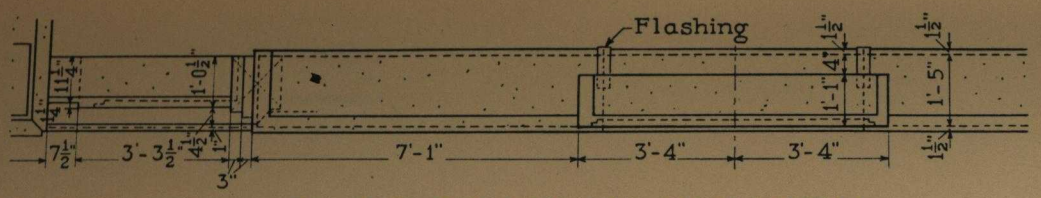
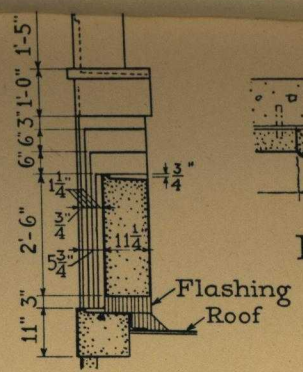
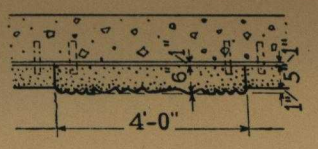


PART PLAN OF PARAPET

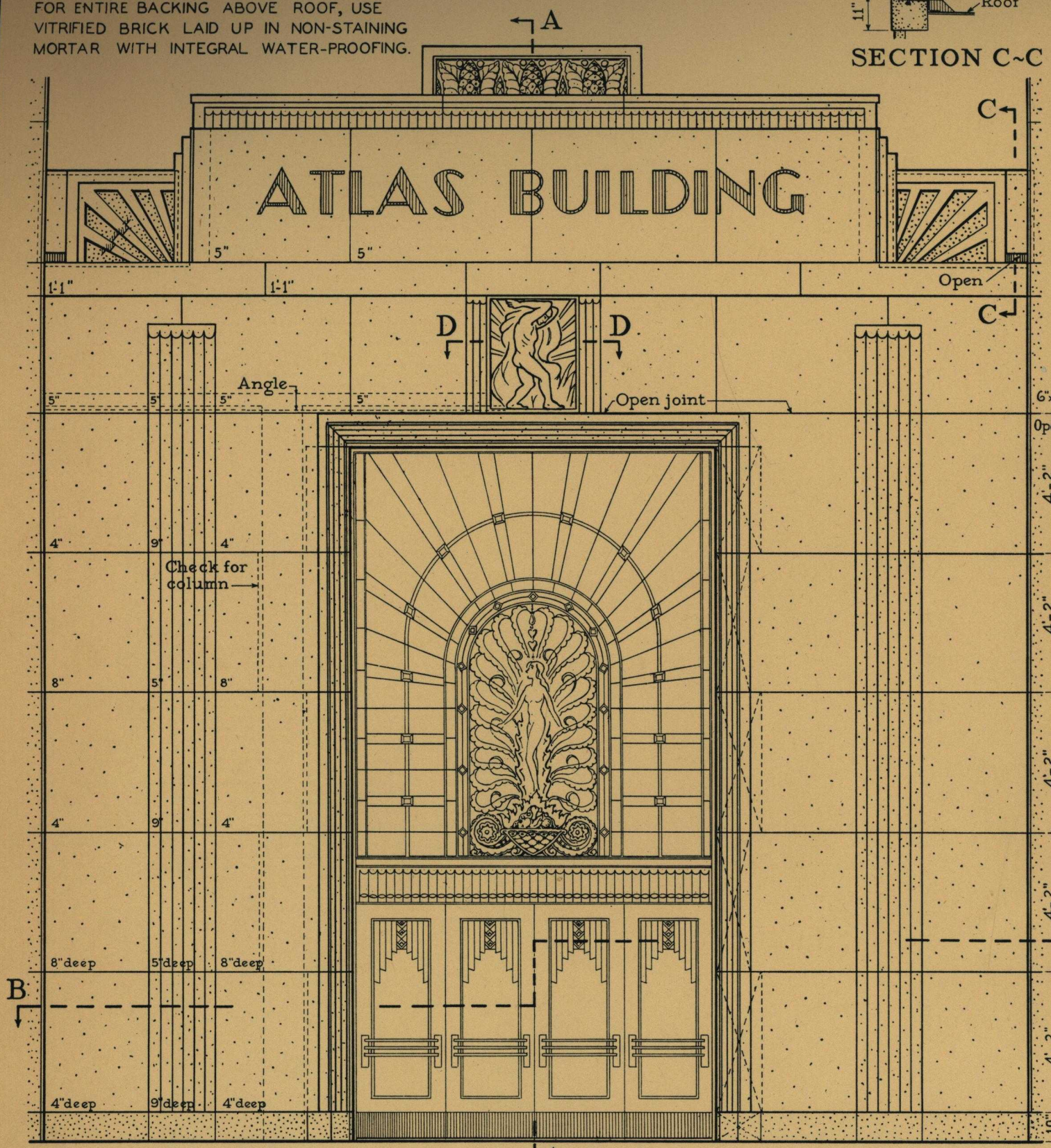


SECTION C~C

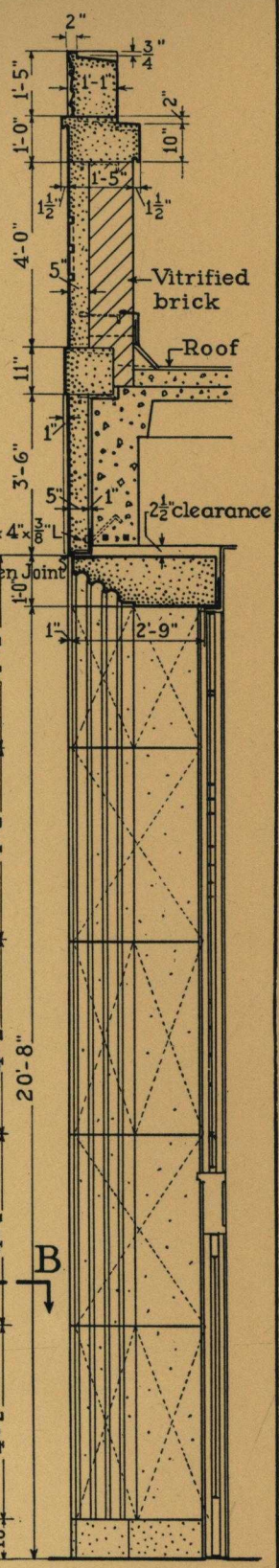


PLAN D~D

FOR ENTIRE BACKING ABOVE ROOF, USE VITRIFIED BRICK LAID UP IN NON-STAINING MORTAR WITH INTEGRAL WATER-PROOFING.

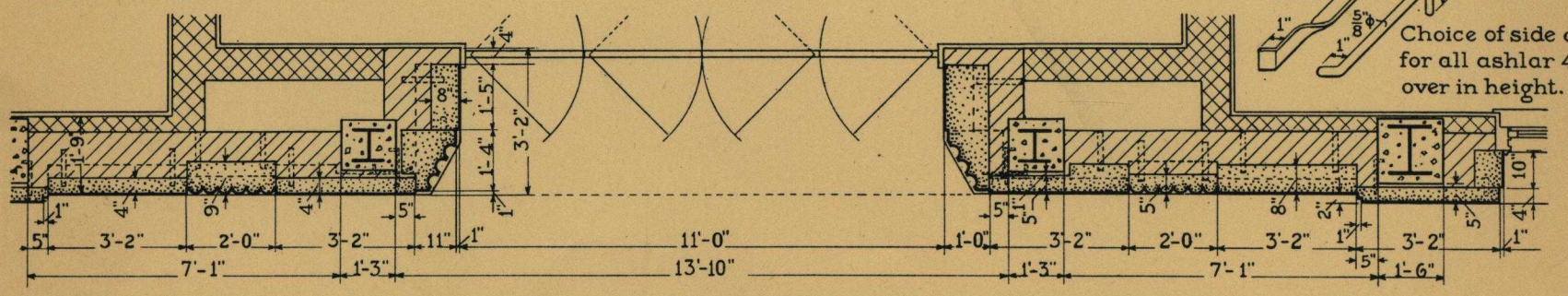


ELEVATION

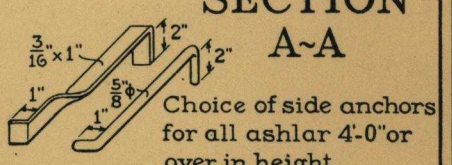


SECTION A~A

SIDE ANCHORS 8" ABOVE BOTTOM BED REQUIRED FOR ALL ASHLAR 4'-0" OR OVER IN HEIGHT.



PLAN B~B



Choice of side anchors for all ashlar 4'-0" or over in height.

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

ENTRANCE

Recommended construction for Entrance of Modern Office Building.

DRAWING ID-14

Binder File Classification } 51.2

Aug. 1, 1930.

INDIANA LIMESTONE COMPANY - BEDFORD, INDIANA, U.S.A.

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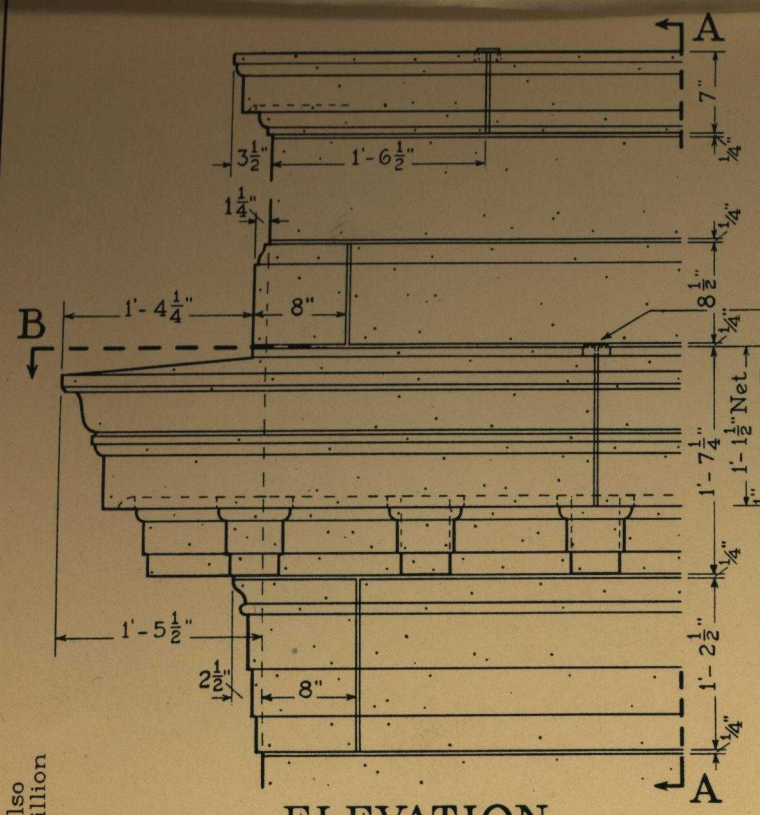
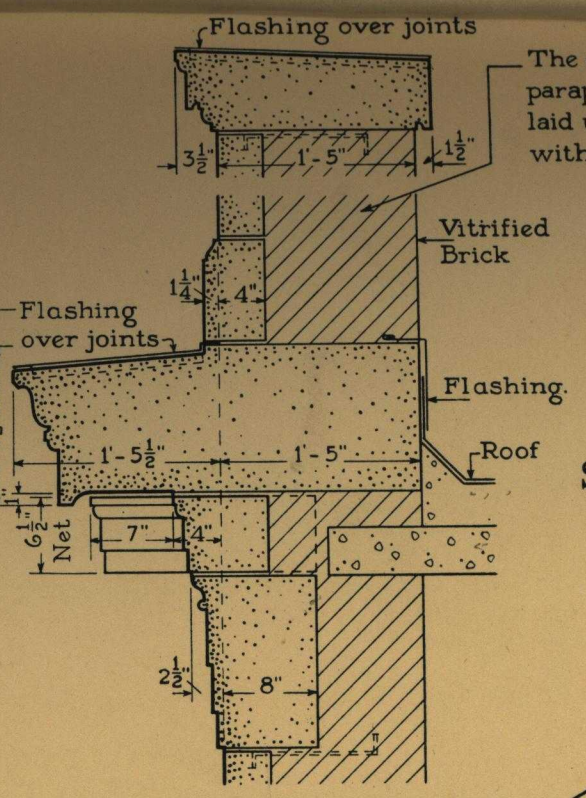
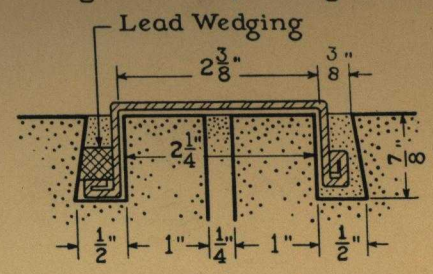


ELEVATION

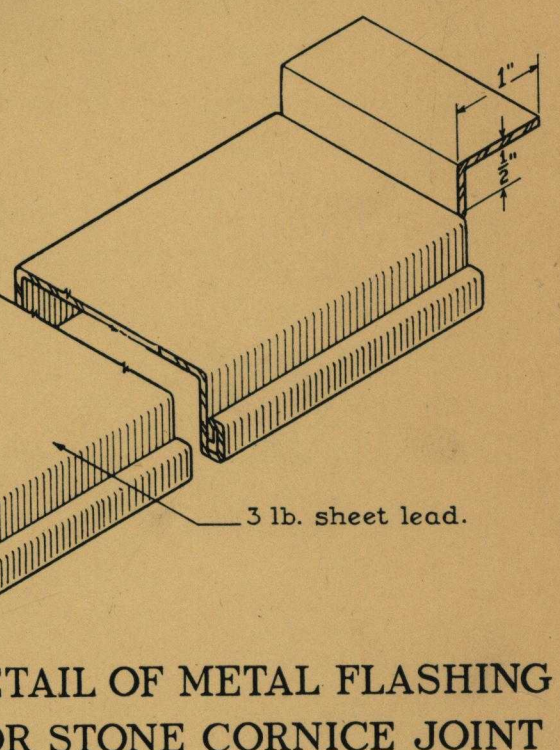


SECTION A~A

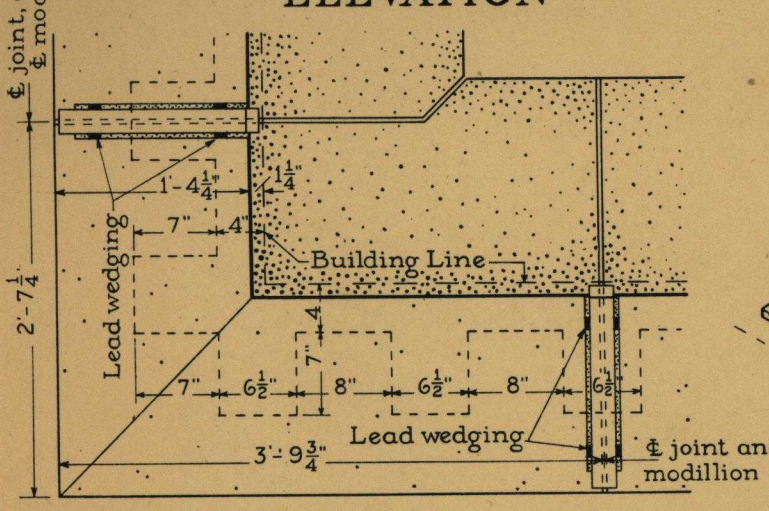


SECTION OF RAGLET

(with flashing in place.)

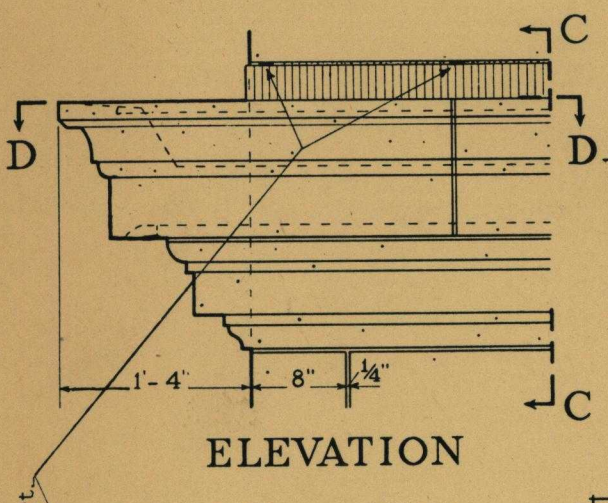


DETAIL OF METAL FLASHING FOR STONE CORNICE JOINT



PLAN AT LEVEL 'B'

ALL FLASHING FASTENED INTO RAGLETS OR JOINTS WITH SOFT LEAD WEDGING ABOUT 16 APART. FILL WITH ELASTIC CALKING COMPOUND.



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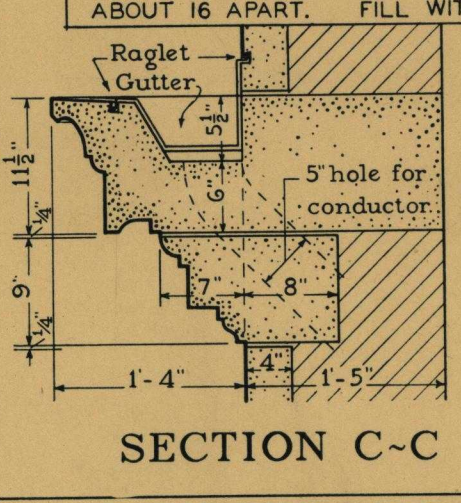
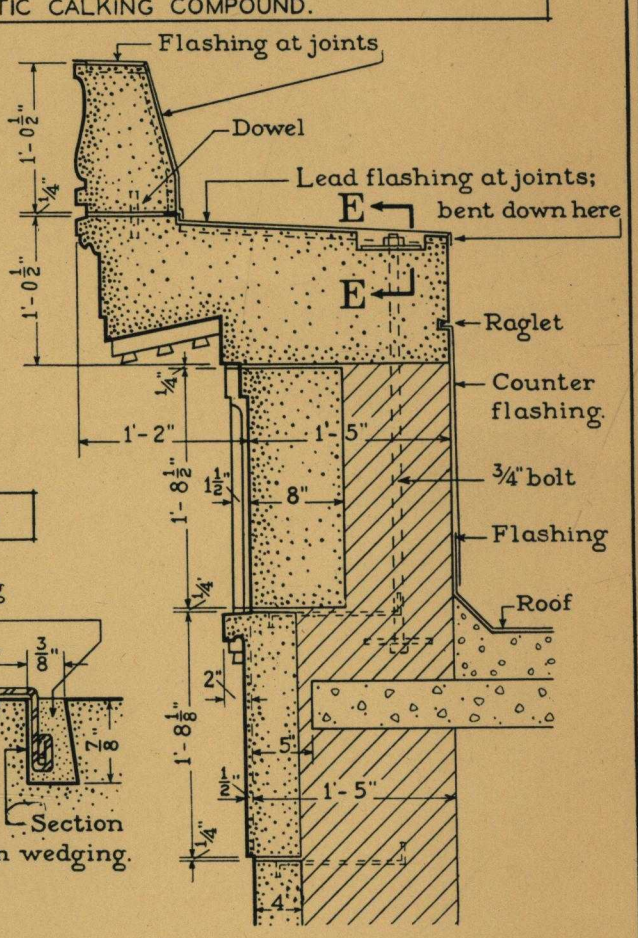
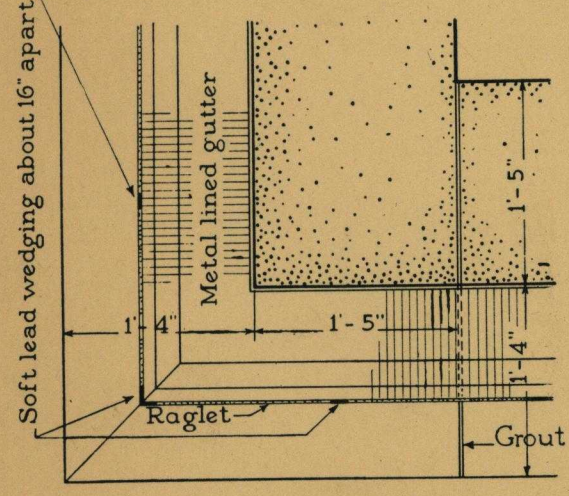


SECTION C~C

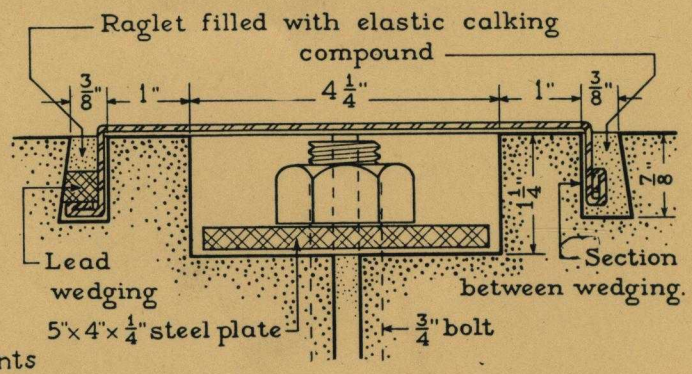


SECTION

DO NOT USE MOLTEN LEAD IN RAGLETS



PLAN D~D



SECTION E~E

ILCO DETAILS
REGISTERED U.S PATENT OFFICE

FLASHING
Cornices, Gutters and Copings

DRAWING ℗-15
Binder File Classification } 81.2
Aug 1, 1930.

INDIANA LIMESTONE COMPANY-BEDFORD, INDIANA, U.S.A.

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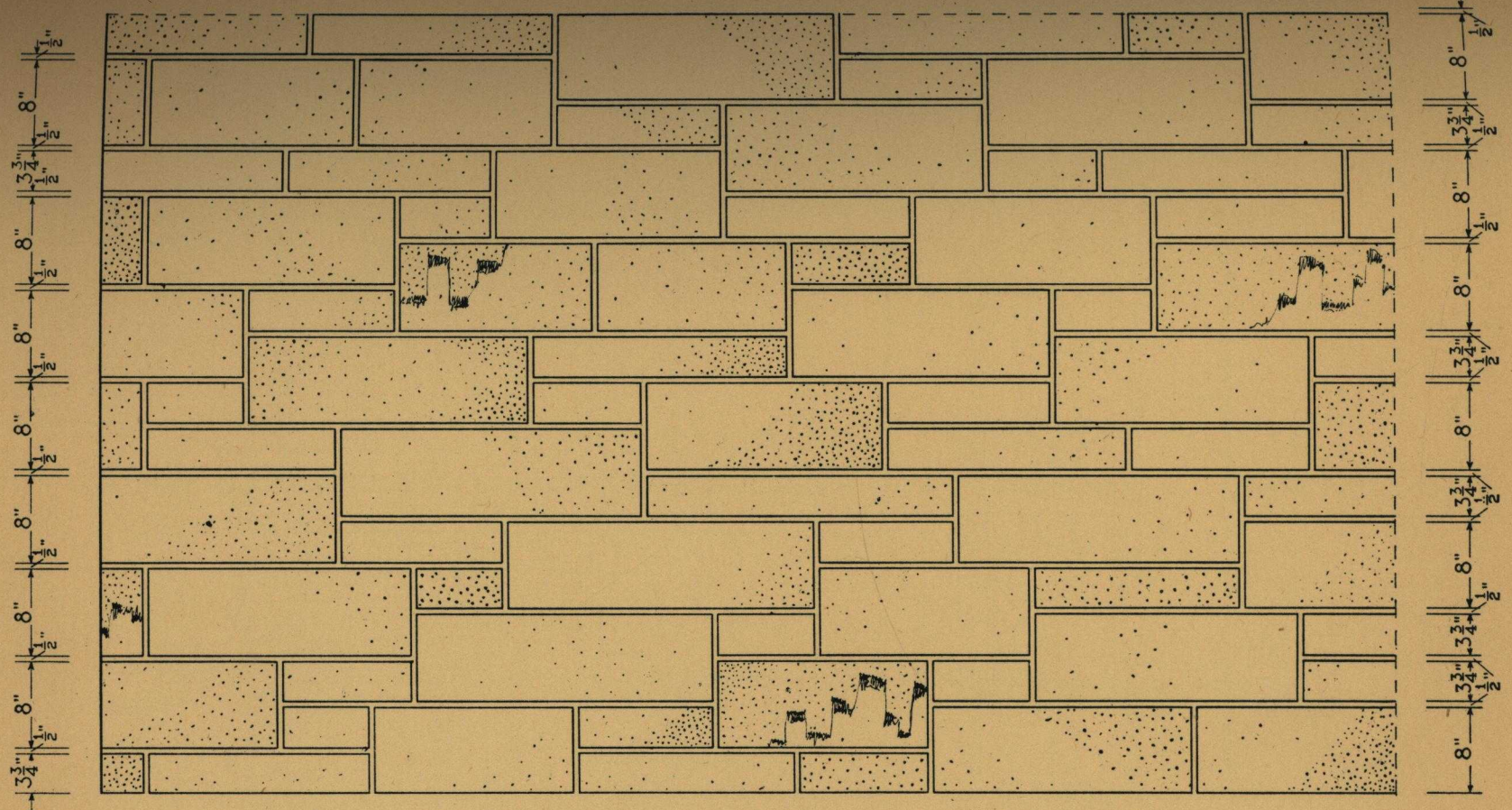
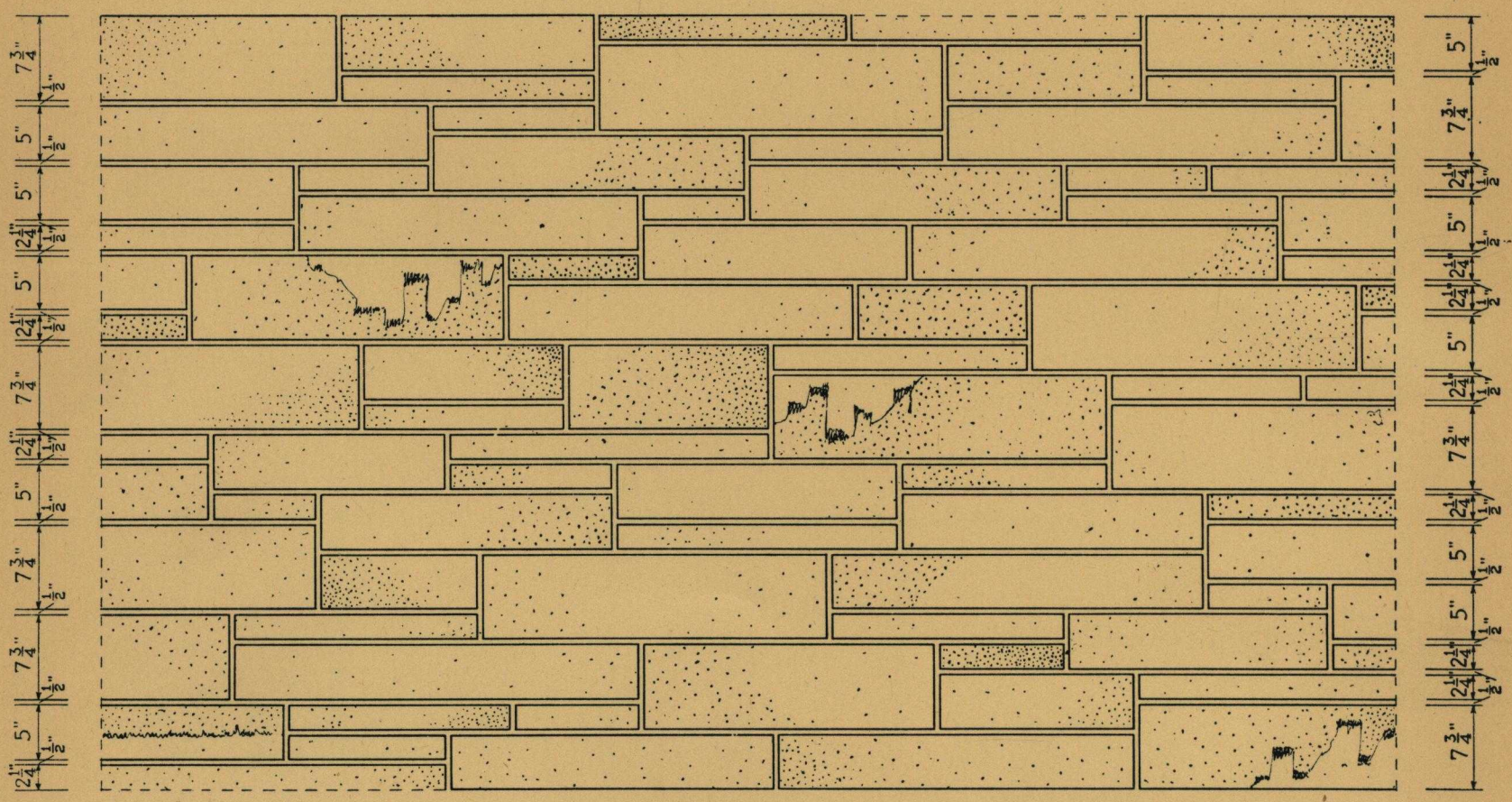


Two unit, medium type random ashlar, illustrated in special ILCO wall panel No. 11. The lengths of the larger stones average about three times their height. Joints are one half inch.



Three unit, long type random ashlar, similar except vertical joints to special ILCO wall panel No. 7. Lengths of most stones average at least four times their heights. Joints are one half inch.

Furnished in strips; jointed to length at building site.

ILCO
DETAILS
REGISTERED U. S. PATENT OFFICE

RANDOM ASHLAR

Two unit, medium type and three unit, long type jointing details for walls of ILCO RIPLSTONE.

DRAWING D-16

Binder File Classification } 85.3

Aug. 1, 1930

INDIANA LIMESTONE COMPANY-BEDFORD, INDIANA, U.S.A.

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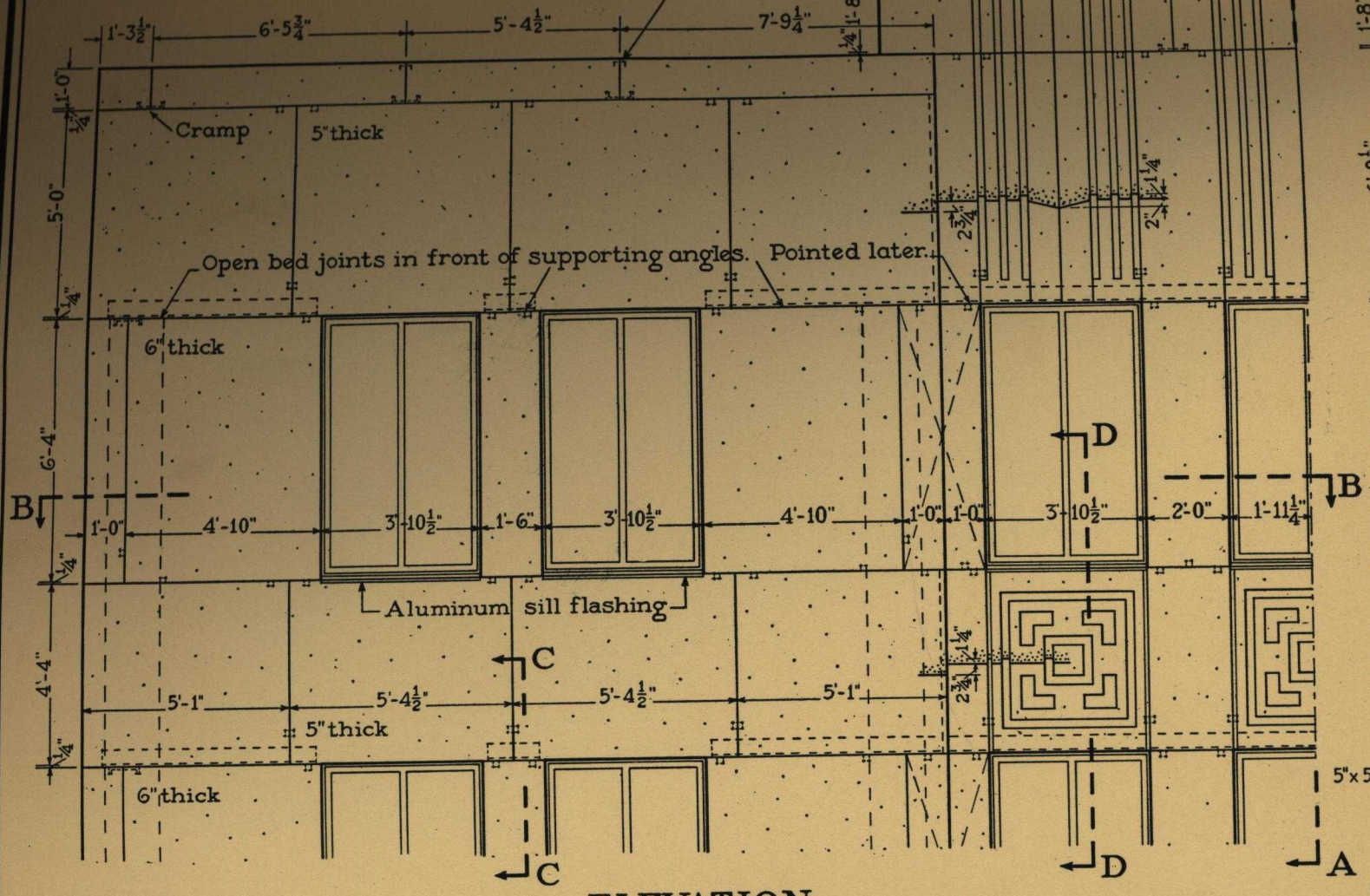
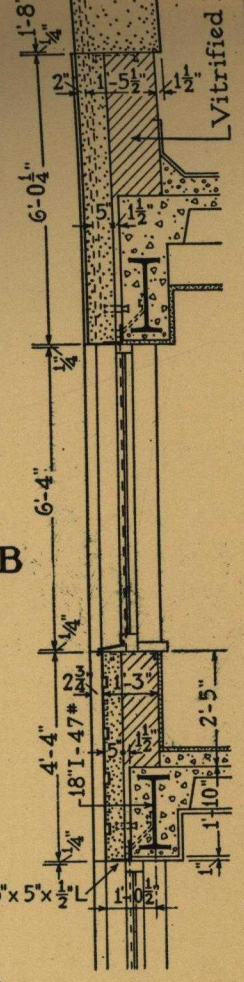
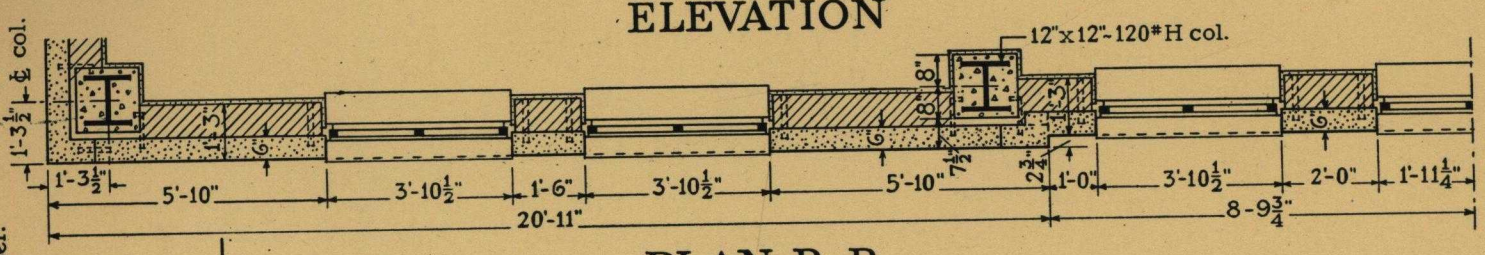


ELEVATION

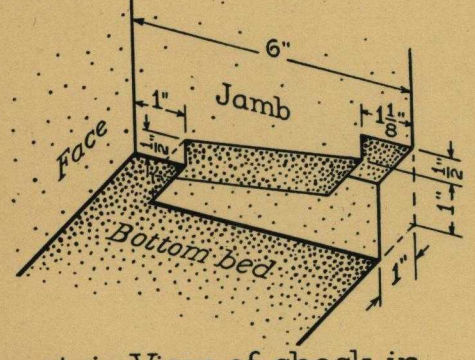


SECTION A~A

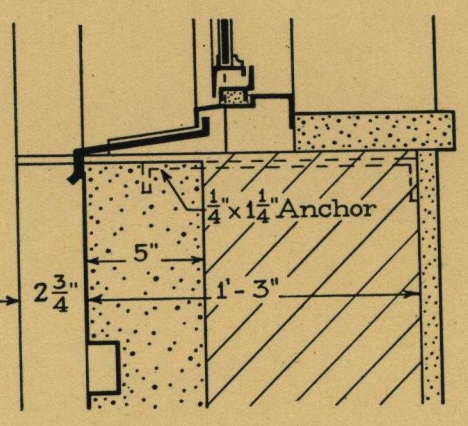


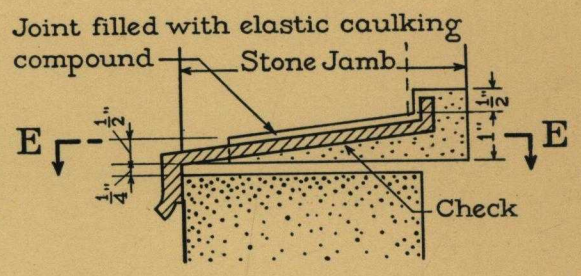
PLAN B~B

Joint in front of all supporting angles left open for pointing later.

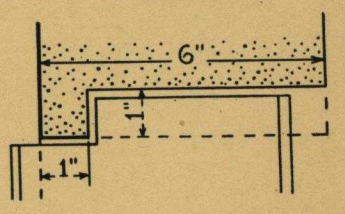


Isometric View of check in stone jamb for aluminum flashing.

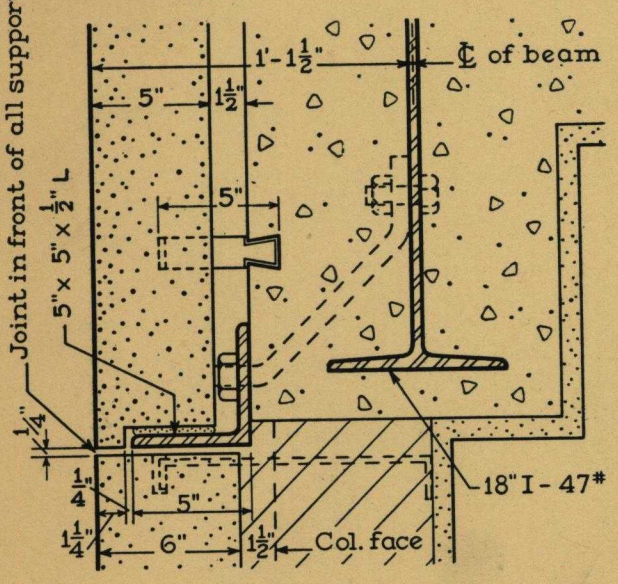




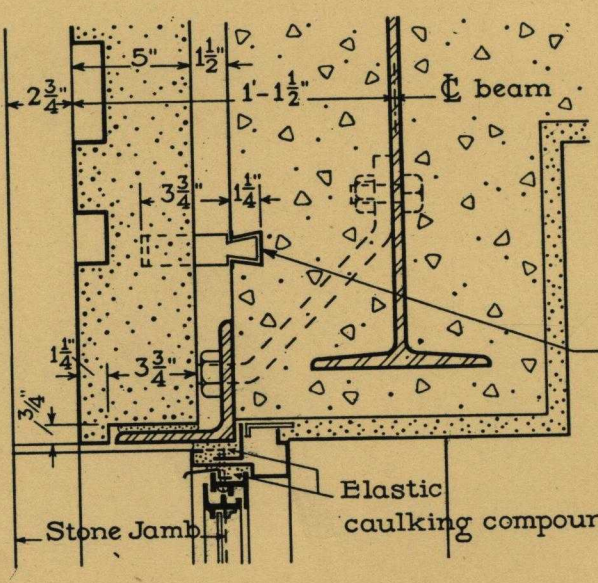
Detail Section showing check at bottom of stone jamb to receive aluminum flashing.



Detail Plan on Line E~E



SECTION C~C



SECTION D~D

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

ILCO HIGH UNITS

Featuring high courses and paneled spandrels, showing support and anchorage.

DRAWING D-17

Binder File Classification } 82.2

Nov. 1, 1930

INDIANA LIMESTONE COMPANY-BEDFORD, INDIANA, U.S.A.

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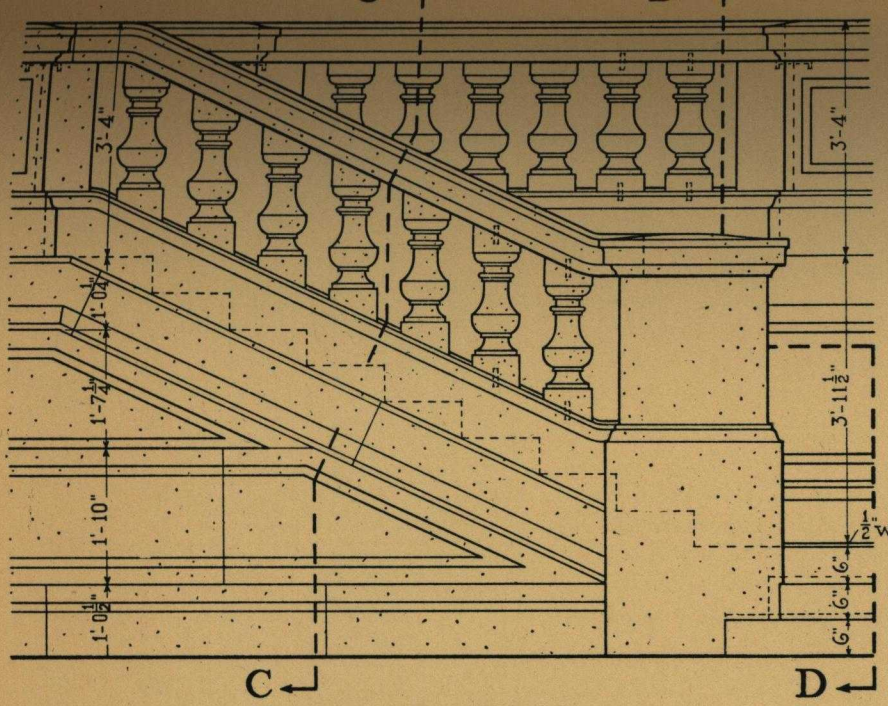
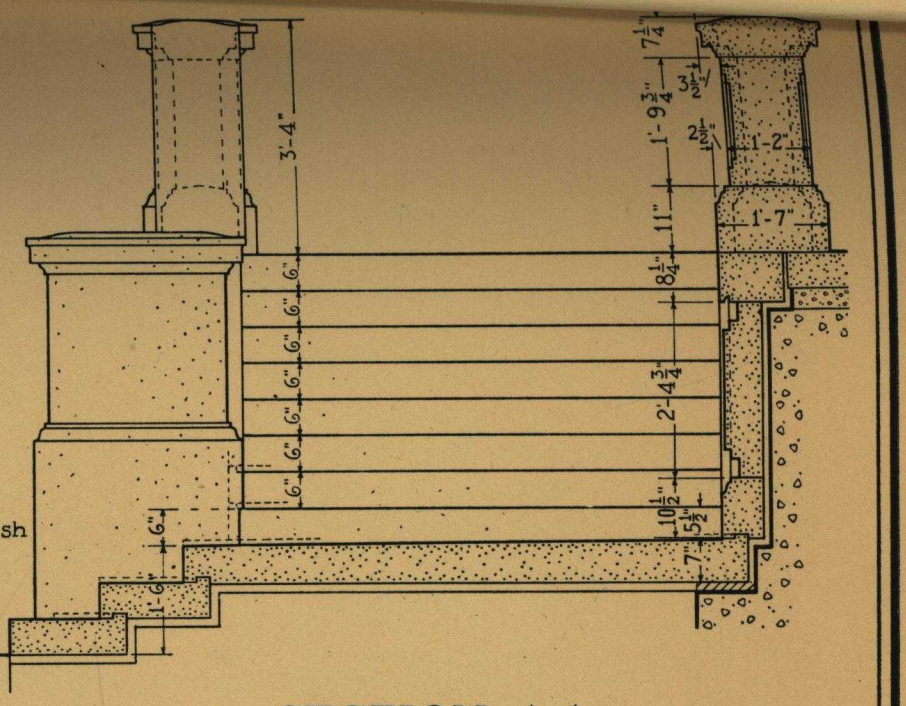
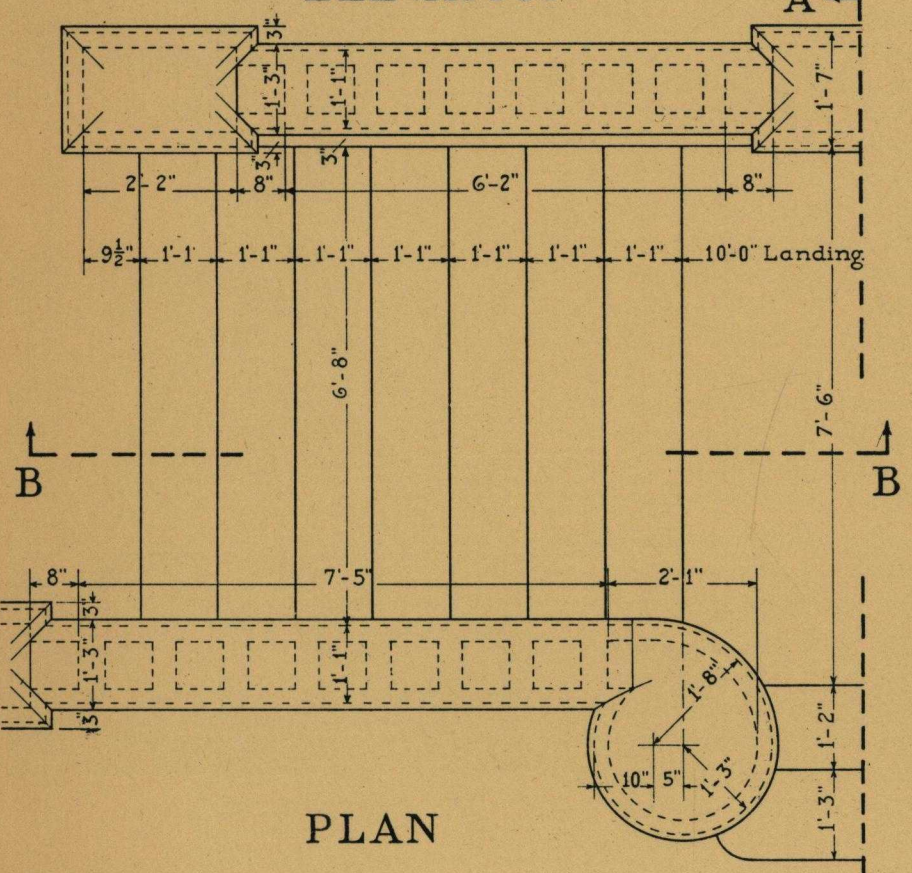


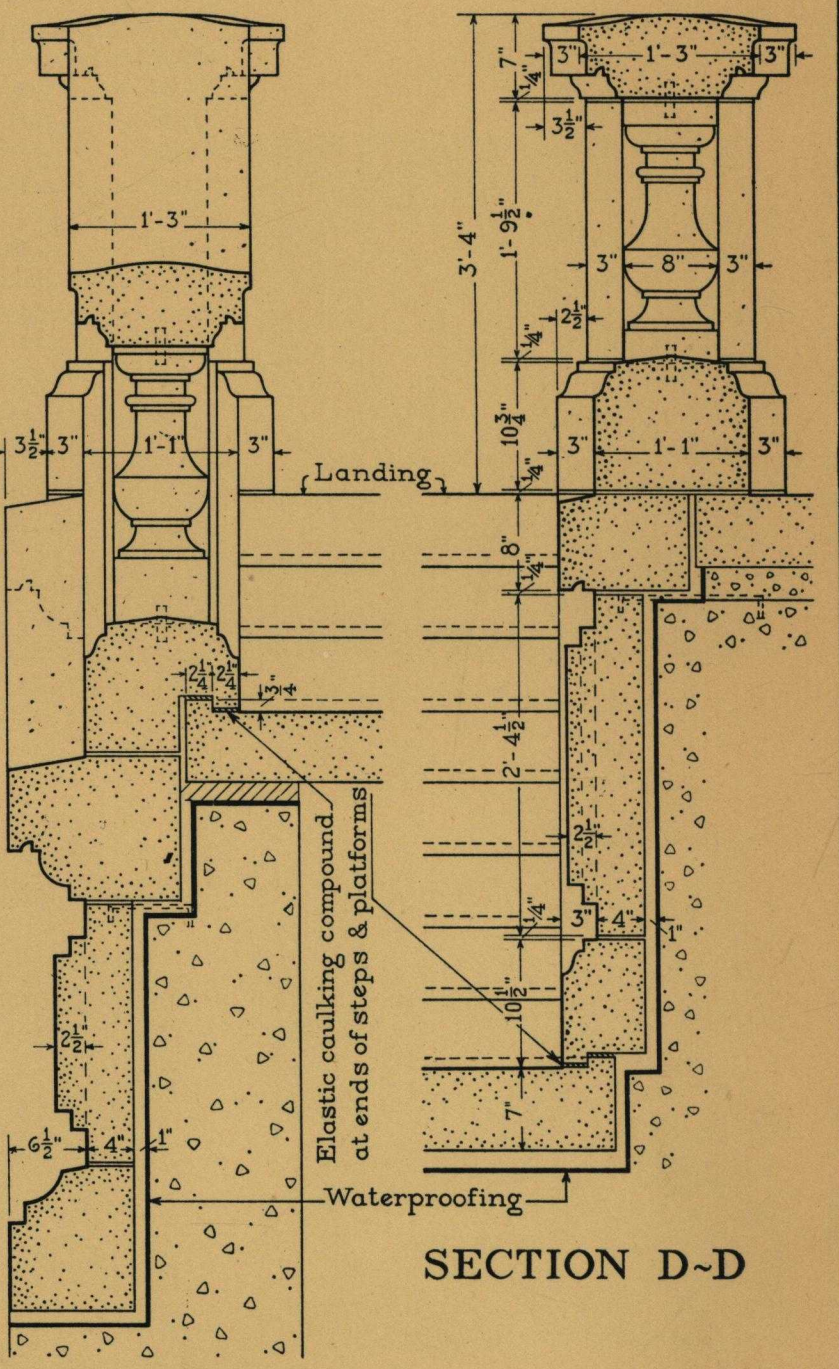
ELEVATION



SECTION A-A

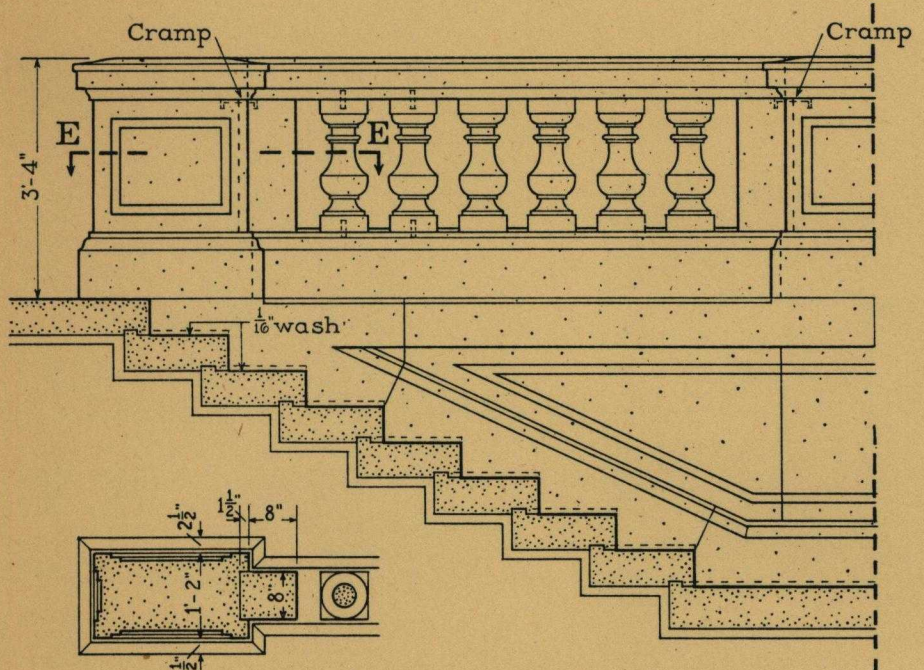


PLAN



SECTION C~C

SECTION D~D



SECTION E~E

SECTION B~B

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

STAIRWAYS

Recommended Construction of Steps and Rails to Prevent Displacement.

DRAWING Φ-18

Binder File Classification } 87.1

Nov. 1, 1930

INDIANA LIMESTONE COMPANY-BEDFORD, INDIANA, U.S.A.

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ILCO SPANDRELS

THE method of fabrication employed permits absolute freedom in the selection of patterns to suit the spirit of the design.

SIMILAR methods of fabrication can be applied to belt courses, pilasters, lintels and other features where ornamentation is desired.

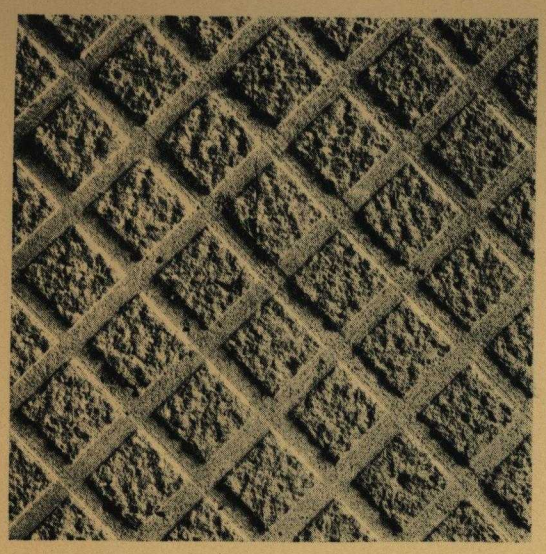
THE accentuation of vertical lines in the present day architecture of tall buildings has been gained in part by the suppression of horizontals. This type of design expresses logically the underlying structure, and it is, therefore, reasonable to expect this development to continue. The submergence of horizontals can be gained in several ways, one of which is the introduction of pattern in detail contrasting with the plainness of the surrounding ashlar. Up to the present time, the use of stone in this manner in spandrel sections has not been broadly developed because of the amount of handwork involved in designs. After much experimentation, the Indiana Limestone Company has evolved a process of machining stone in extremely interesting geometrical patterns. The examples of spandrel design show only suggestions of what can be done to meet the architect's requirements.

This kind of ornamentation is distinctly practical even though it is a radical departure from the flowing decorations of previous periods. In the first place, it is a very honest expression of today's motif. In addition to that, its cost is decidedly favorable when the architect stops to consider the economy of setting stone of this size compared with the smaller units of other materials. Aside from the point of architectural propriety the day has passed when the "set-up" for commercial buildings will stand the expense of over-ornamentation. This is rather a fortunate situation, because the best use of ornamentation is in concentrated sections where it has a chance to be seen in contrast with the broader areas of plain surfaces about it.

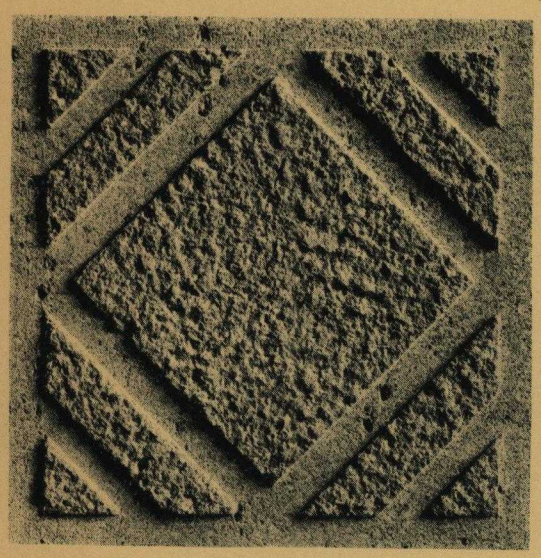
The patterns of these spandrels give interesting effects which will be accentuated by the weathering of the stone as time goes on.

Some architects have said that they felt that this process which we have worked out is the coming method of handling horizontals, because it does not completely submerge them, but rather differentiates the horizontal from the vertical. Many architects have questioned the validity of designs submerging entirely horizontals, because every building has both columns and beams.

The technical staff of our Architects' Service Bureau is at your disposal for consultation on patterns, costs, etc.



PATTERN NUMBER 1



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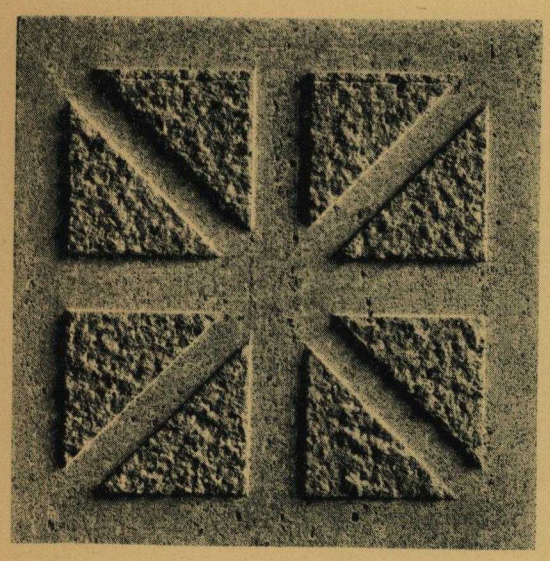

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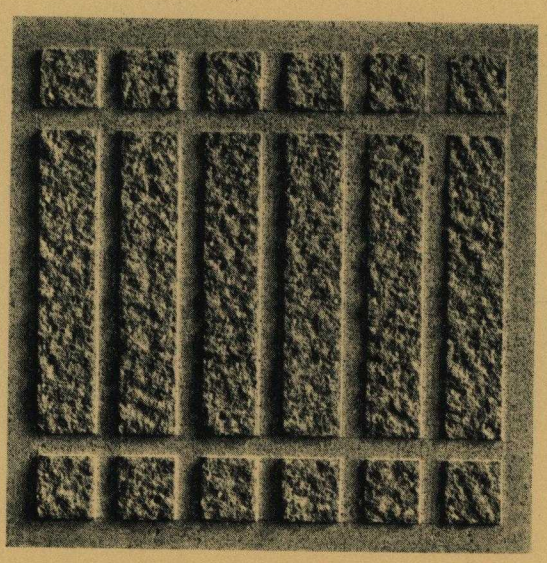

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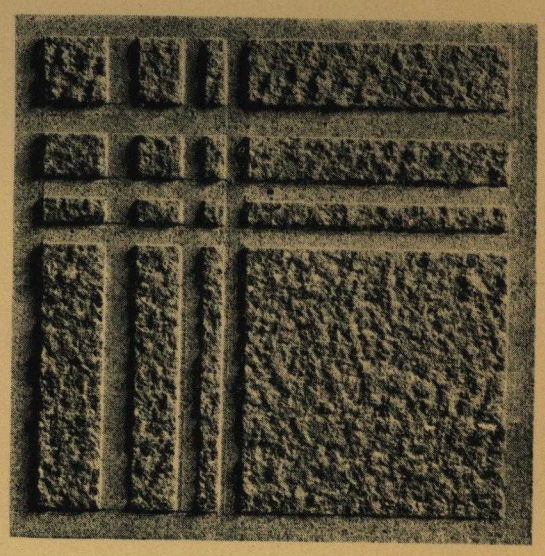

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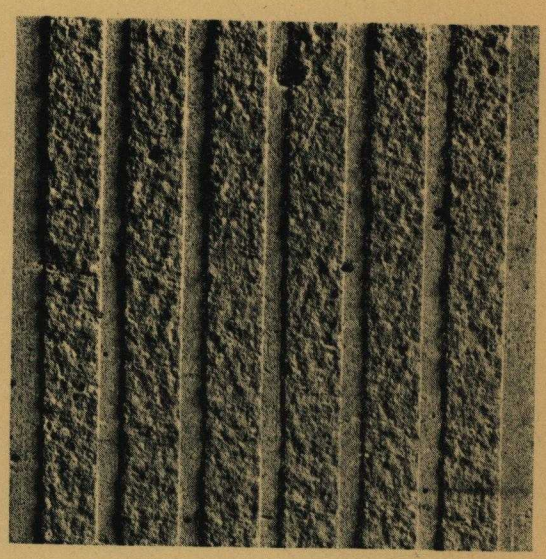

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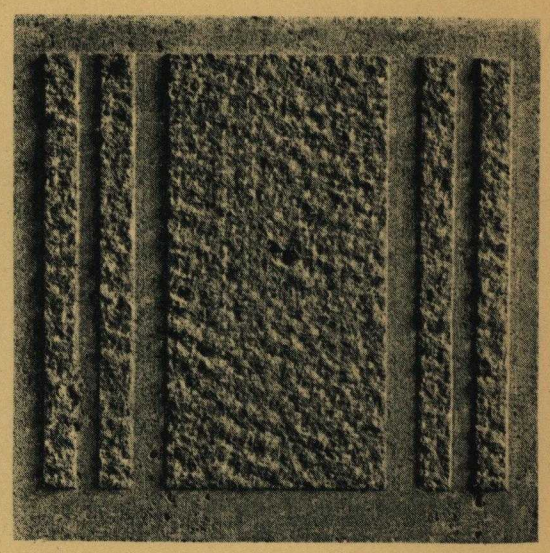

PATTERN NUMBER 6

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

ILCO SPANDRELS
Description and Examples

DRAWING Φ-19
Binder File Classification } 86.3
Oct. 15, 1930

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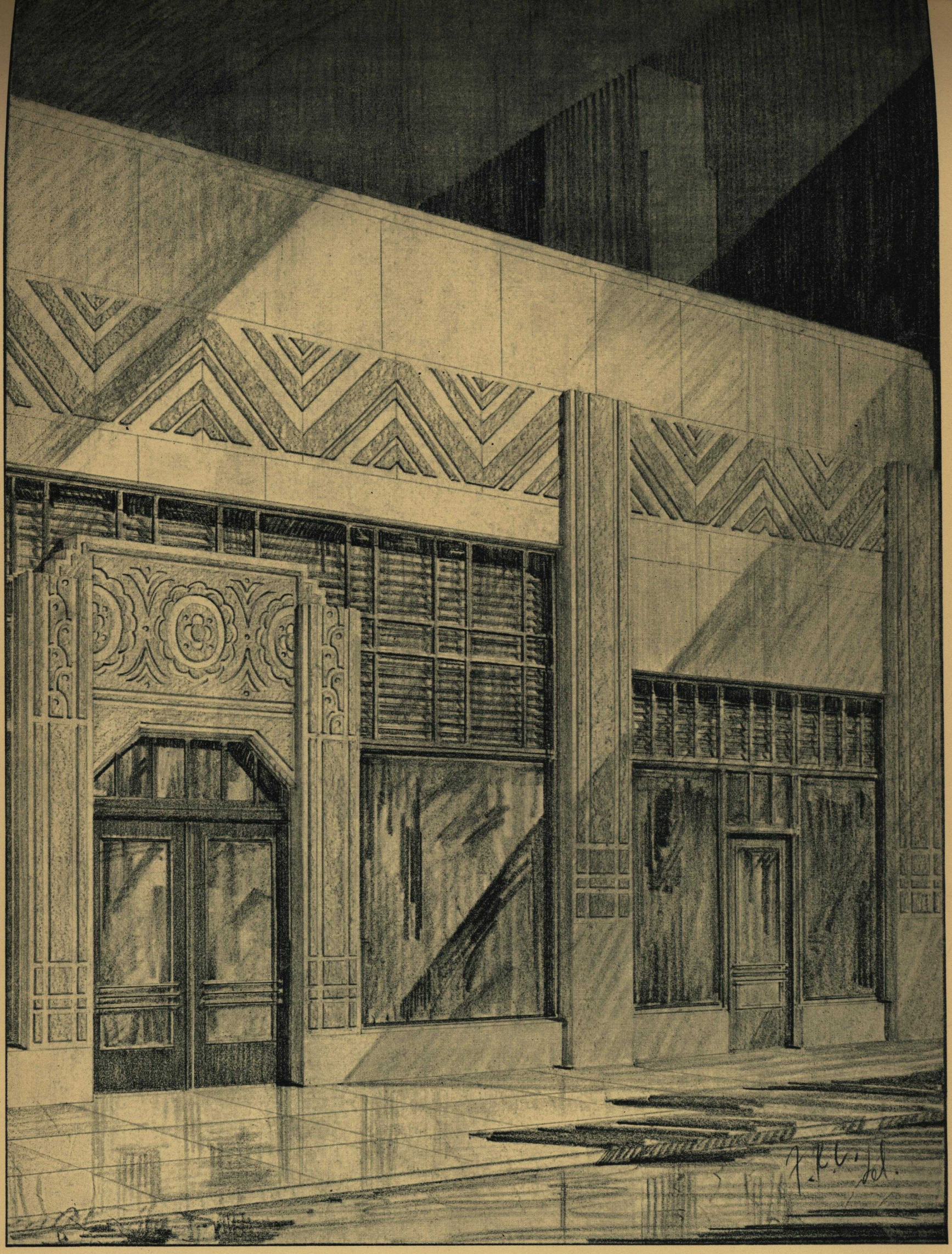

ILCO
DETAILS
REGISTERED U. S. PATENT OFFICE

ILCO SPANDRELS

ILCO Spandrel motif applied to pilasters and panels of modern entrances

DRAWING Φ-20

Binder File Classification } 86.4

Oct. 15, 1930

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ILCO
DETAILS
REGISTERED U. S. PATENT OFFICE

ILCO SPANDRELS

Application to modern office building
See Sheet 22 for Structural Details

DRAWING ID-21

Binder File Classification } 86.5

Oct. 15, 1930

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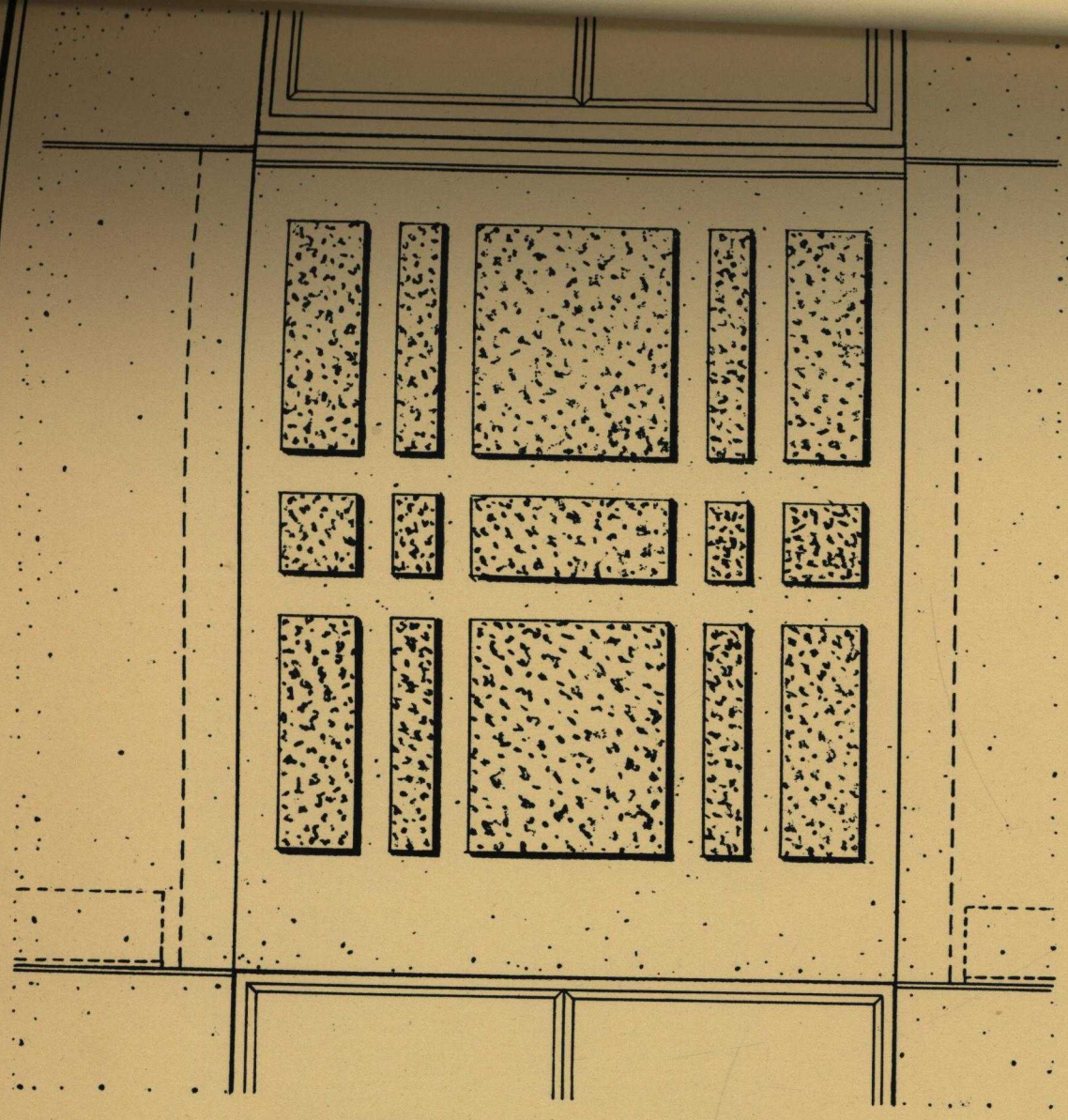
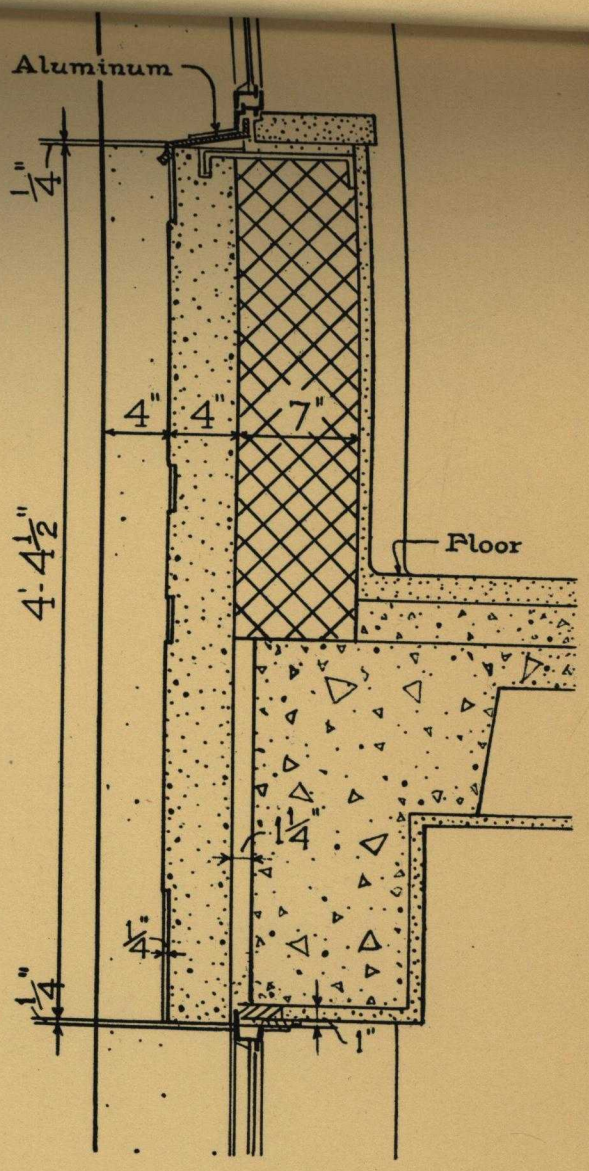
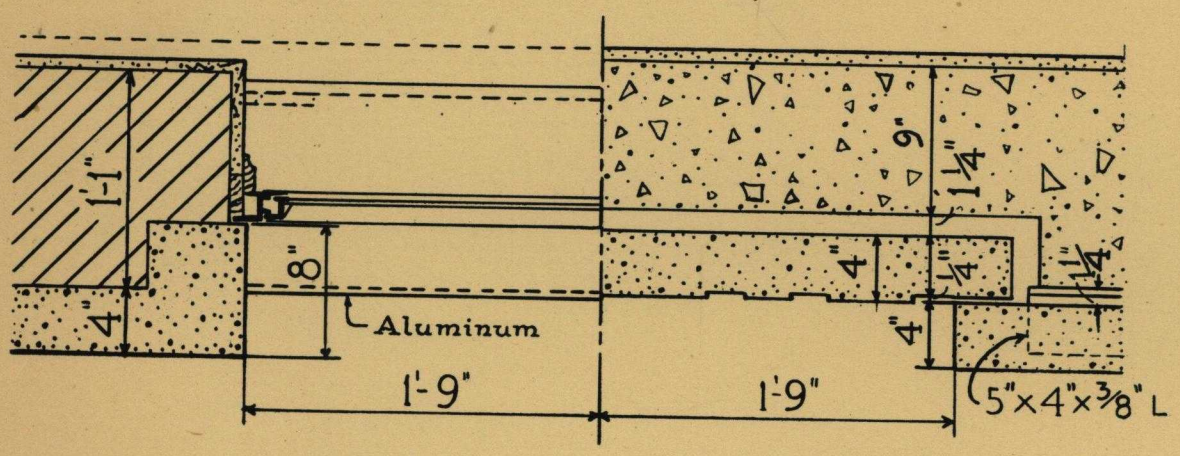


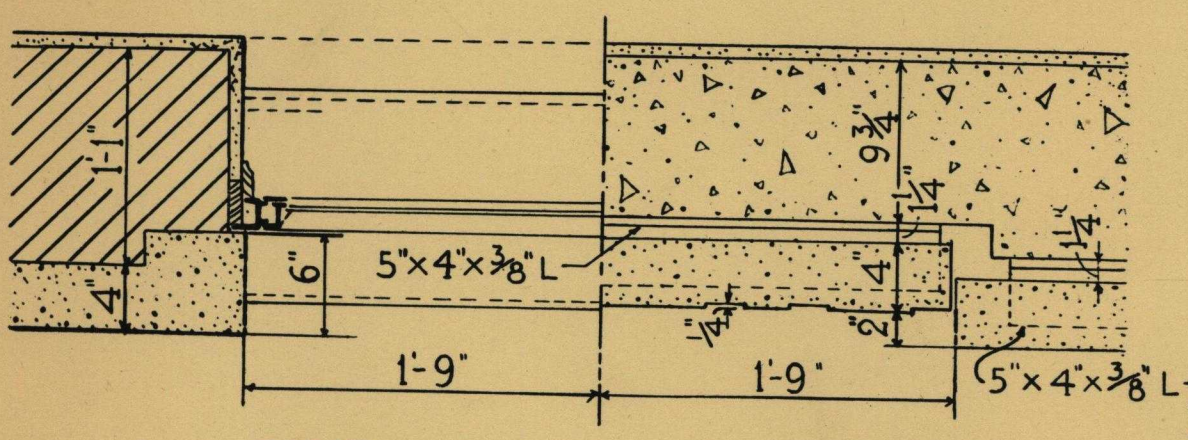
~ ELEVATION OF SPANDREL ~



SECTION

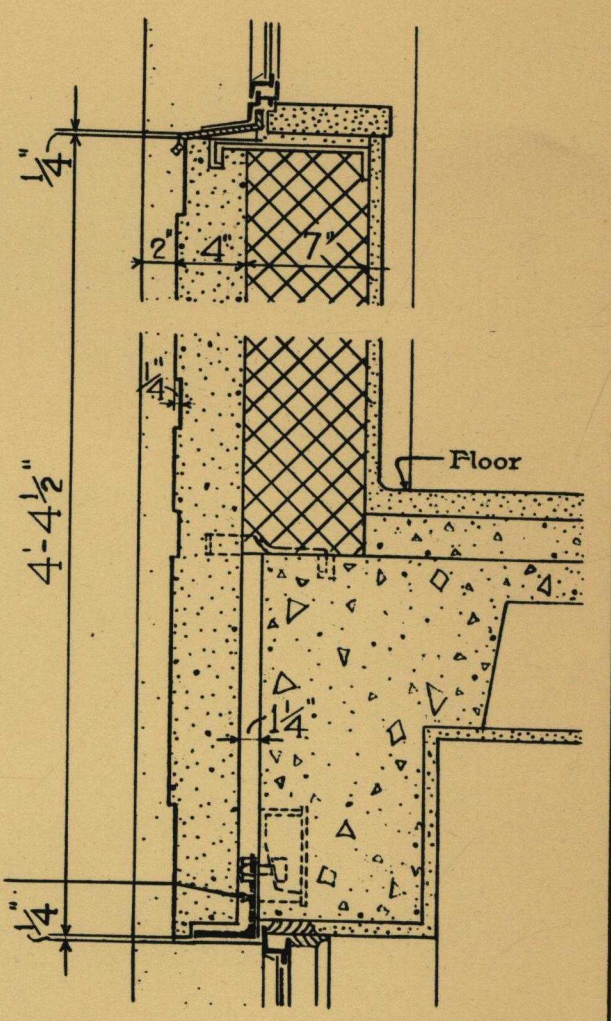


JAMB SPANDREL



JAMB SPANDREL

ALTERNATE PLAN



ALTERNATE SECTION

ILCO DETAILS
REGISTERED U.S PATENT OFFICE

ILCO SPANDRELS

Structural Details of modern office building shown on Sheet 21

DRAWING Φ-22

Binder File Classification } 86.7

Oct. 15, 1930

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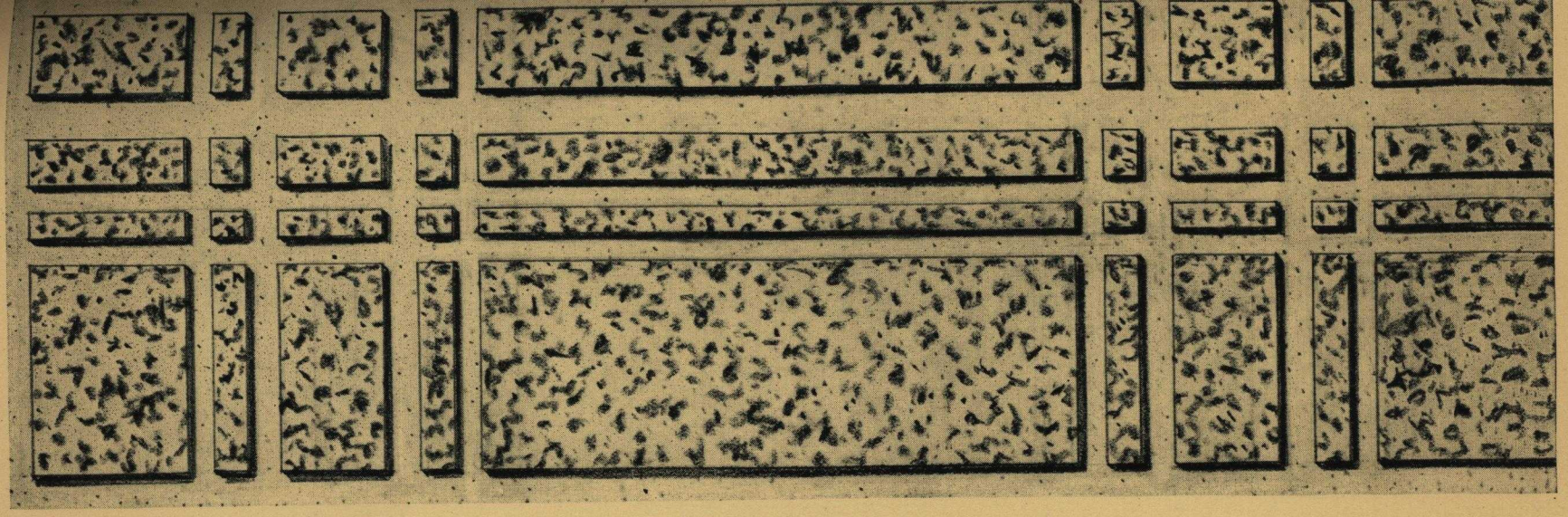

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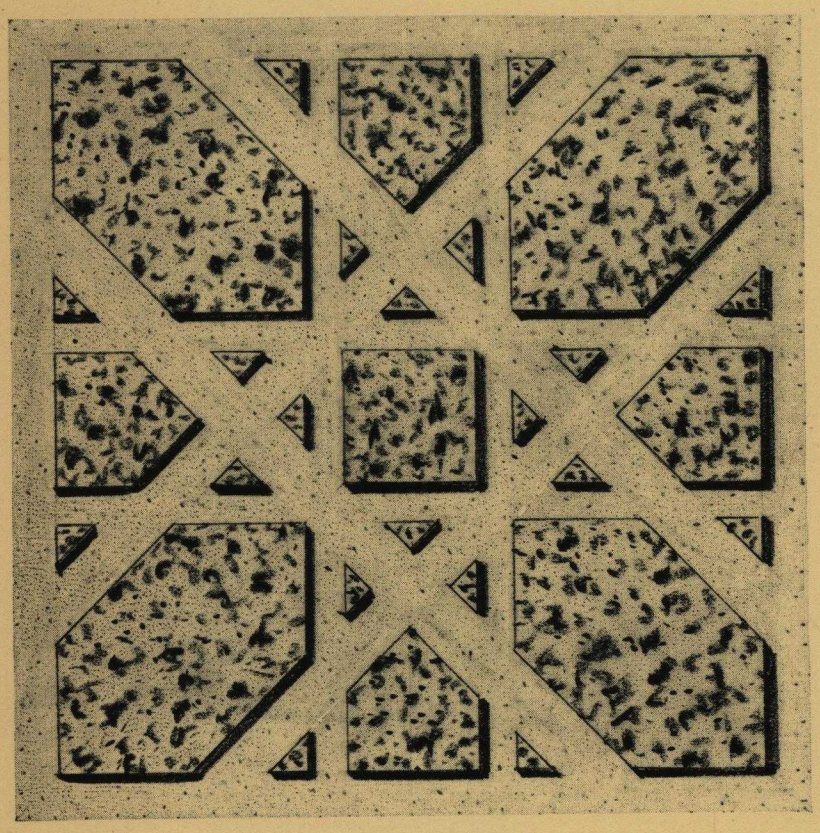

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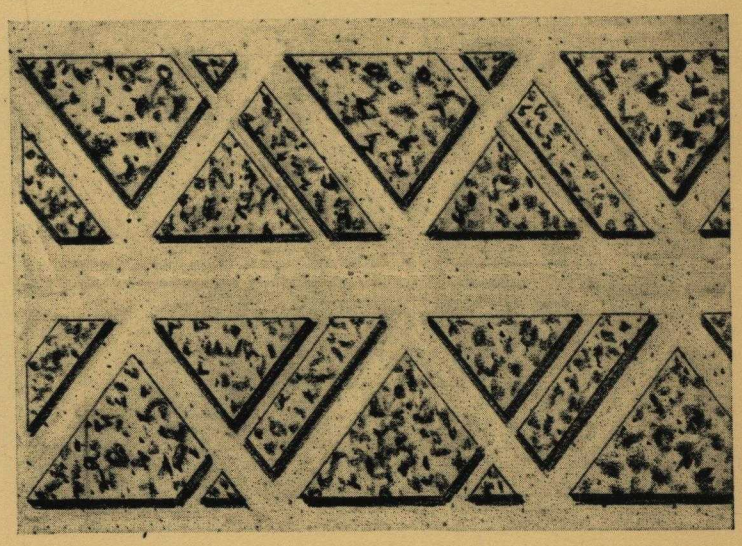

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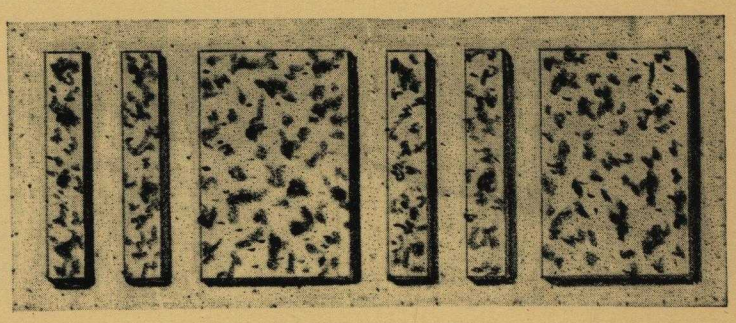

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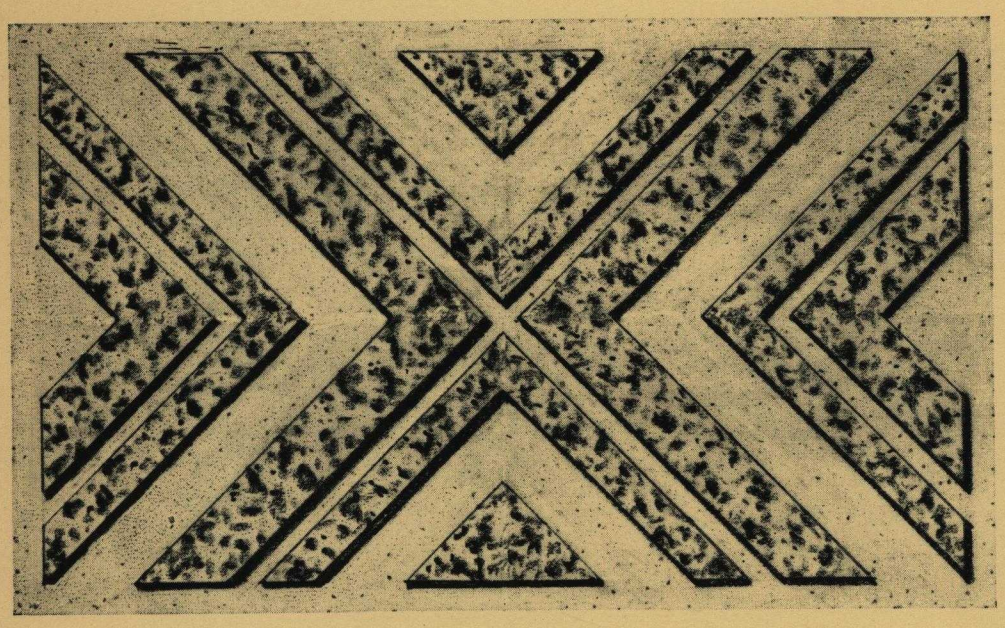
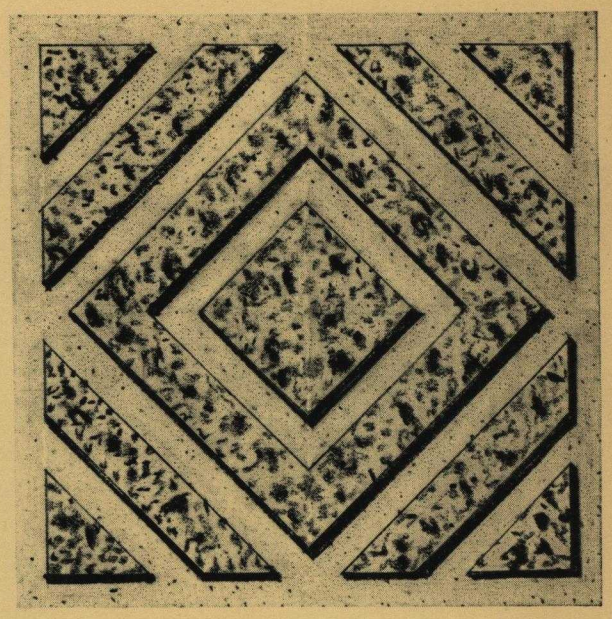


PATTERN NUMBER 12



PATTERN NUMBER 13

ILCO
DETAILS
REGISTERED U. S. PATENT OFFICE

ILCO SPANDRELS

Specimen patterns 8 to 13

DRAWING Φ-23

Binder File Classification } 86.8

Oct. 15, 1930

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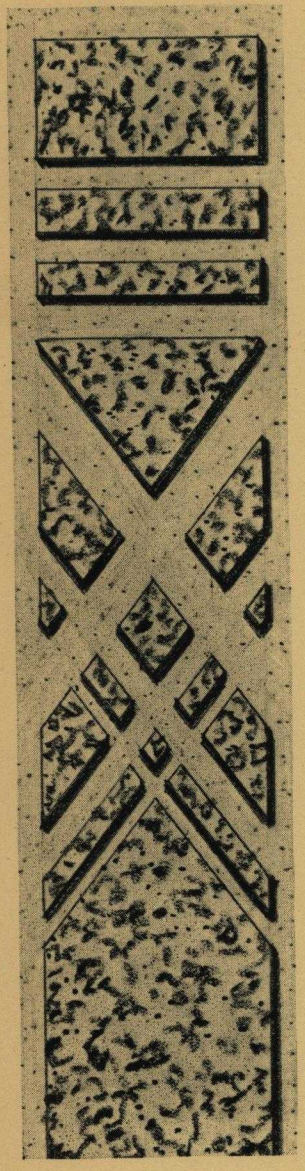

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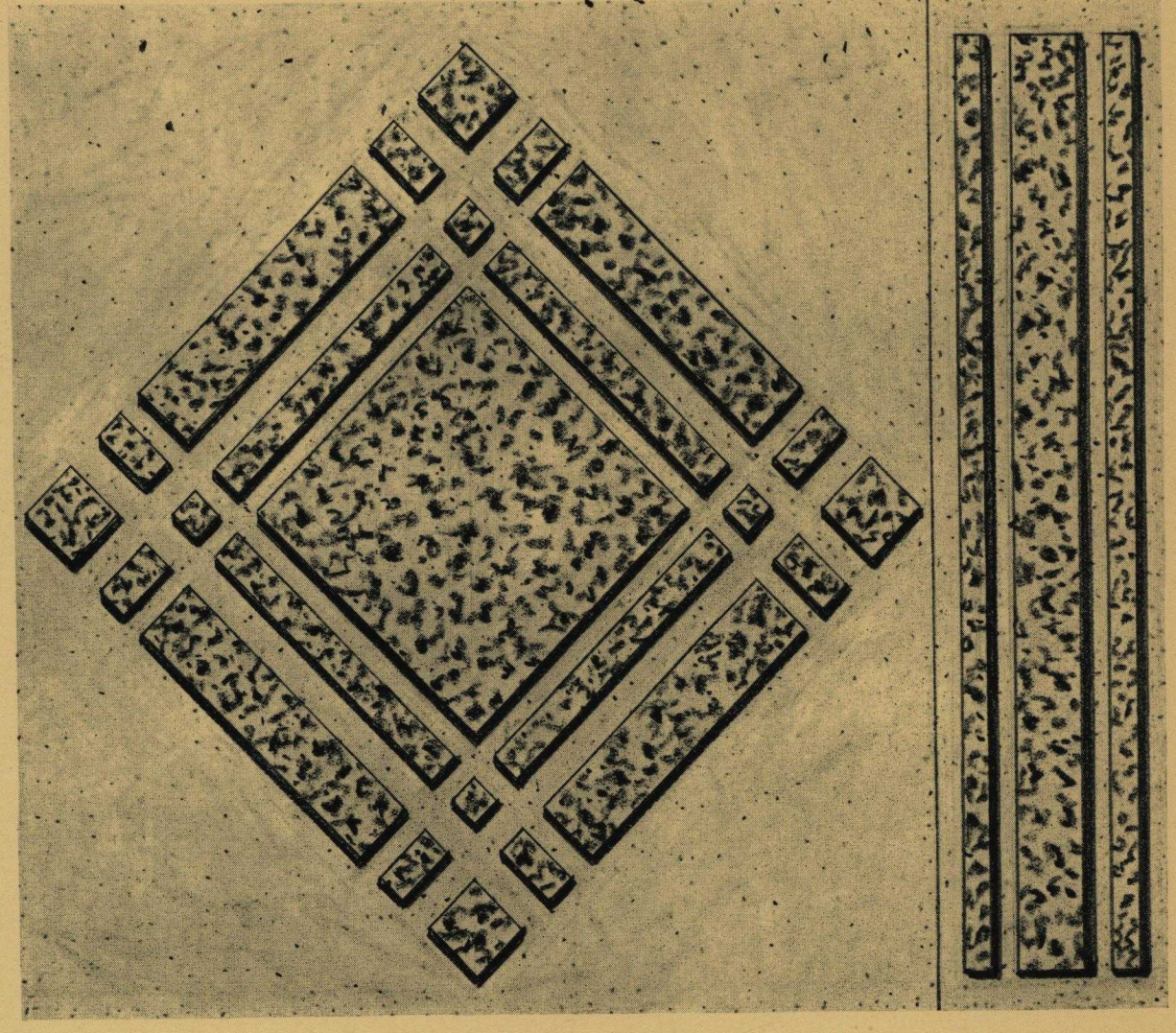
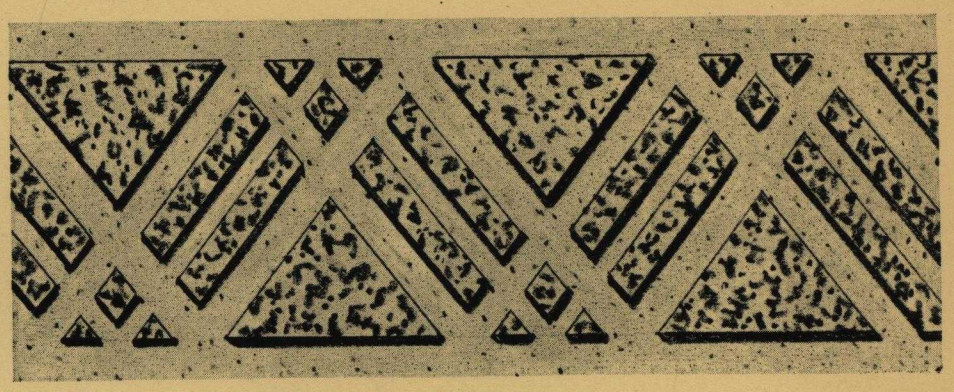


PATTERN NUMBER 15



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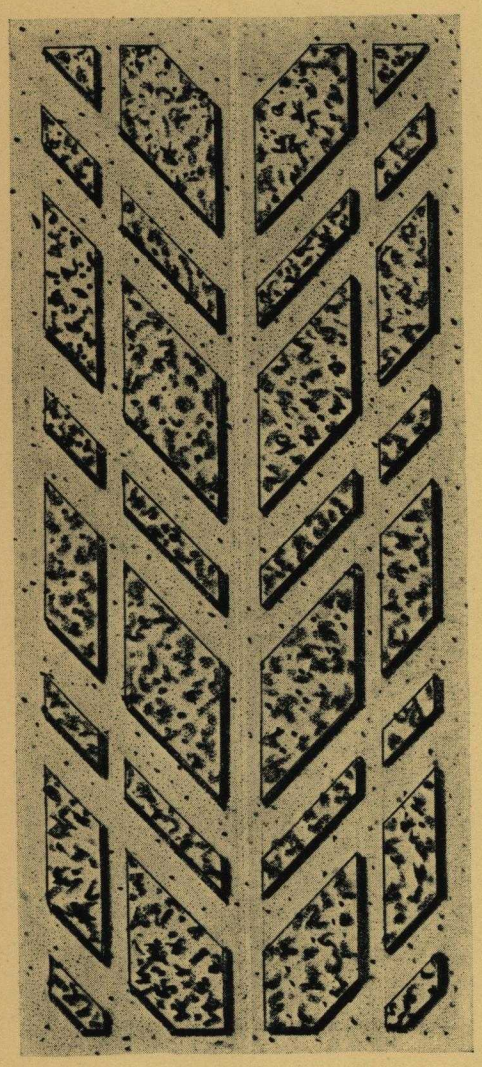

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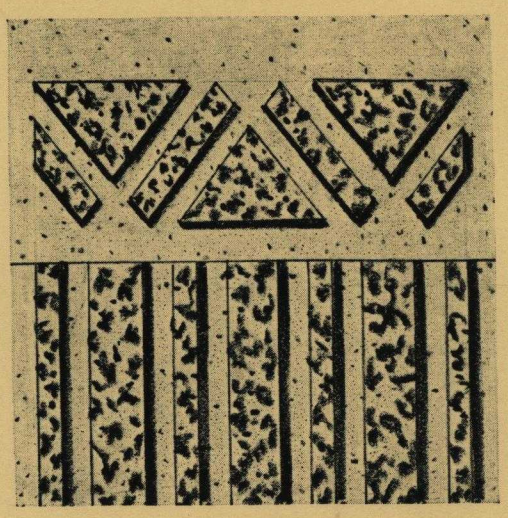
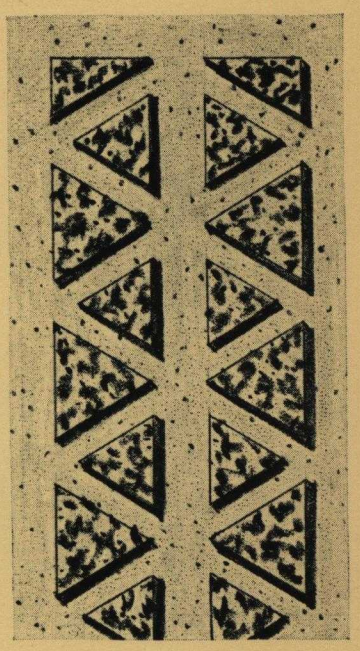


PATTERN NUMBER 18



PATTERN NUMBER 19

ILCO
DETAILS
REGISTERED U. S. PATENT OFFICE

ILCO SPANDRELS

Specimen patterns 14 to 19

DRAWING Φ-24

Binder File Classification } 86.9

Oct. 15, 1930

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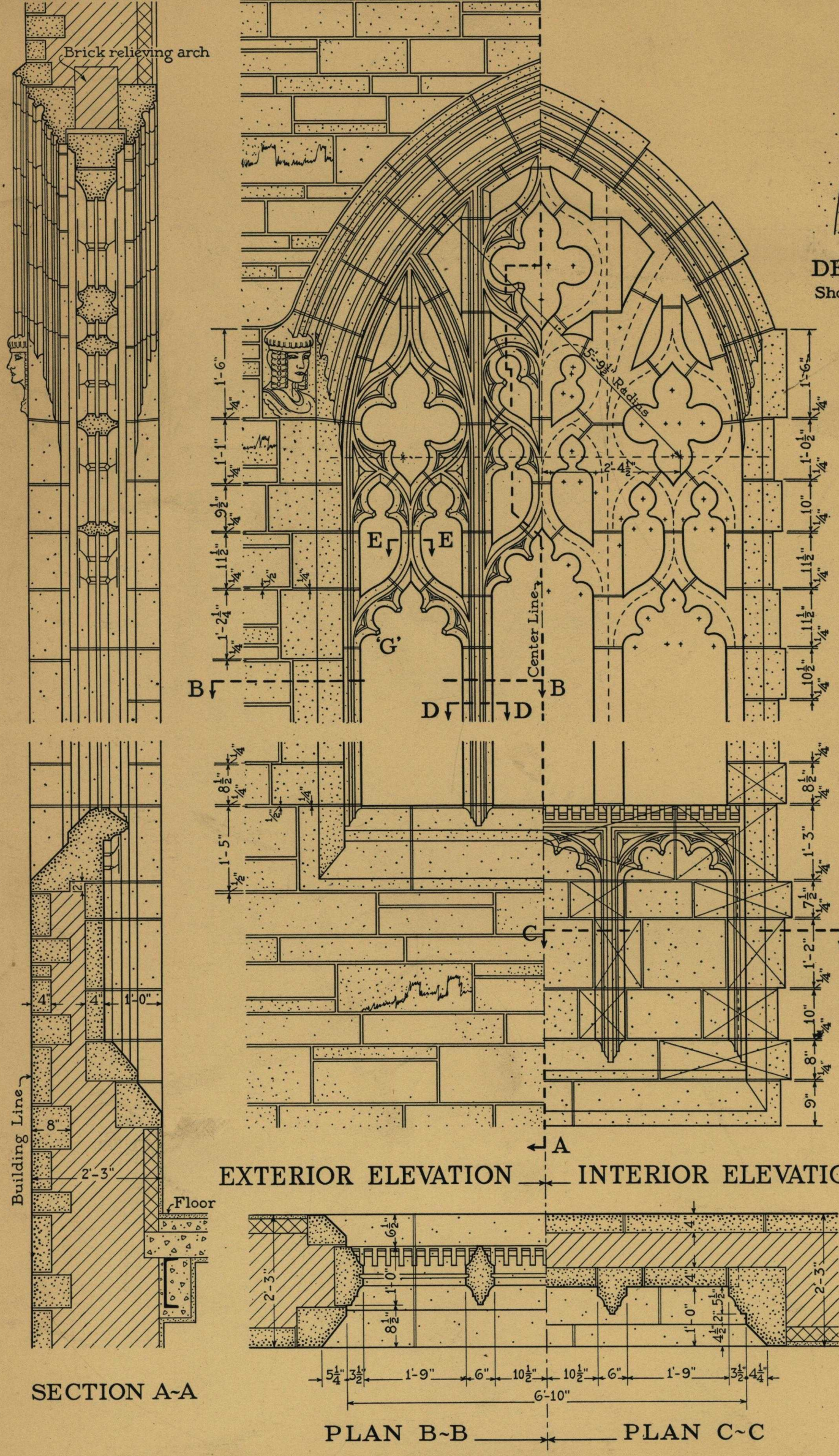
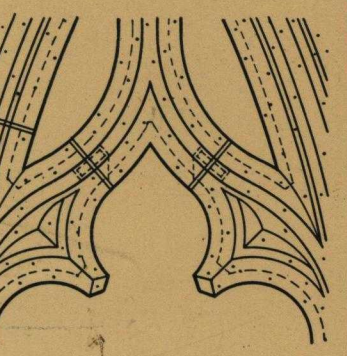
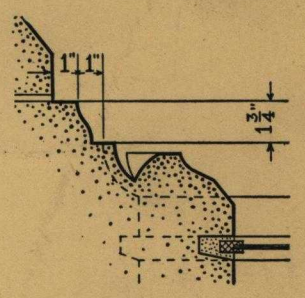


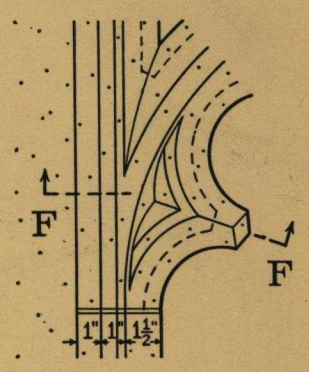
DETAIL OF TRACERY

Showing dowel connections.

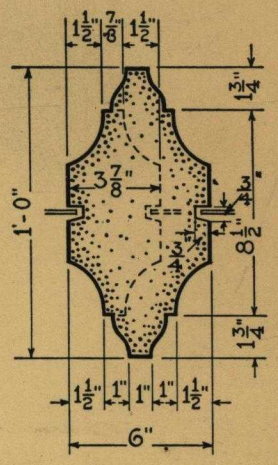




SECTION F~F



DETAIL OF CUSP 'G'



SECTION D~D

Dotted Line Shows

SECTION E~E

EXTERIOR ELEVATION — INTERIOR ELEVATION

SECTION A~A

PLAN B~B — PLAN C~C

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

TRACERY WINDOW

Gothic Tracery Window showing Exterior and Interior Treatment.

DRAWING Φ-25

Binder File Classification } 44.1

February 1, 1931.

INDIANA LIMESTONE COMPANY - BEDFORD, INDIANA, U.S.A.

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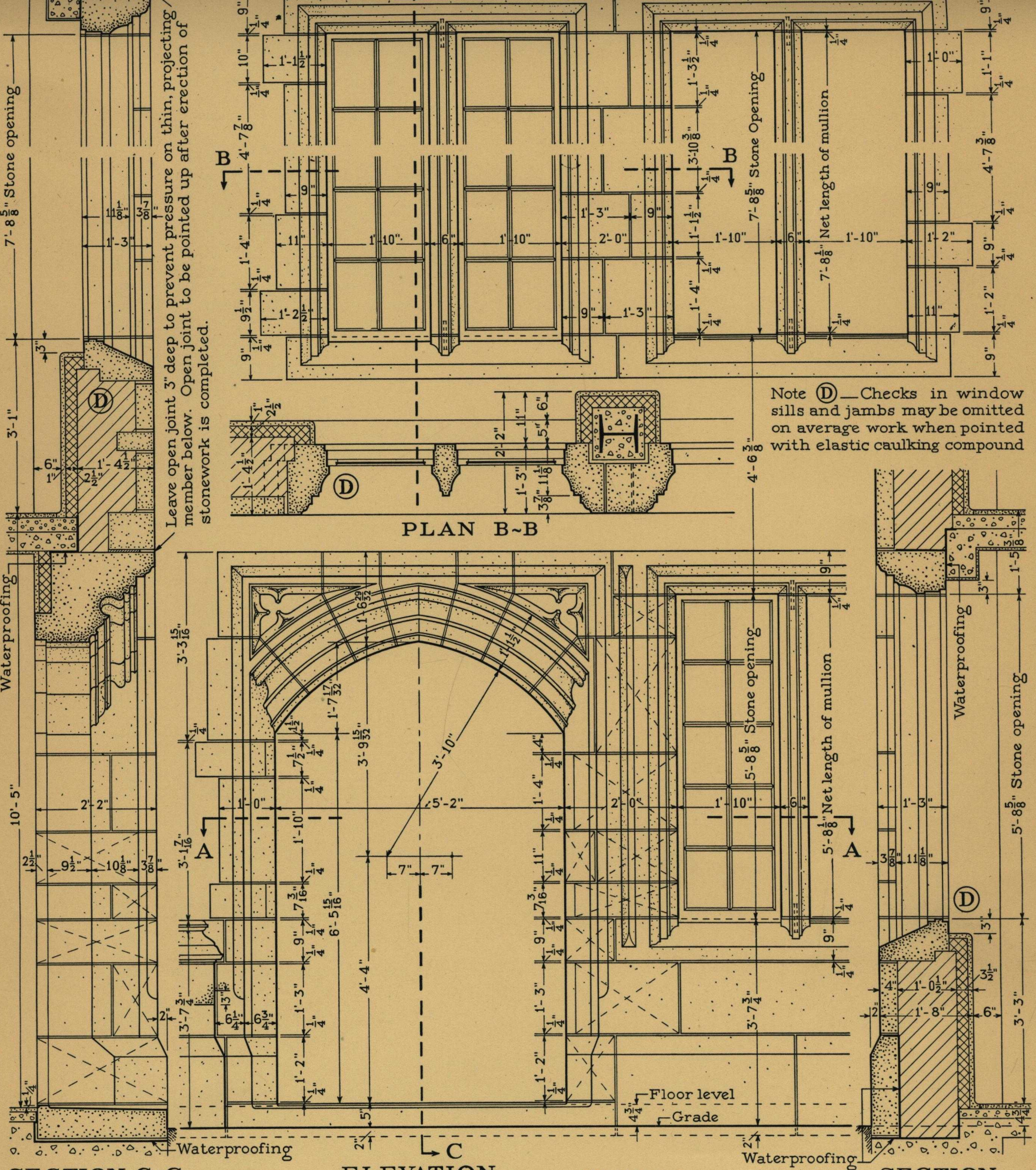

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

ENTRANCE AND WINDOWS

Construction for Collegiate Gothic Building.

DRAWING Φ-26

Binder File Classification } 43.2

February 1, 1931.

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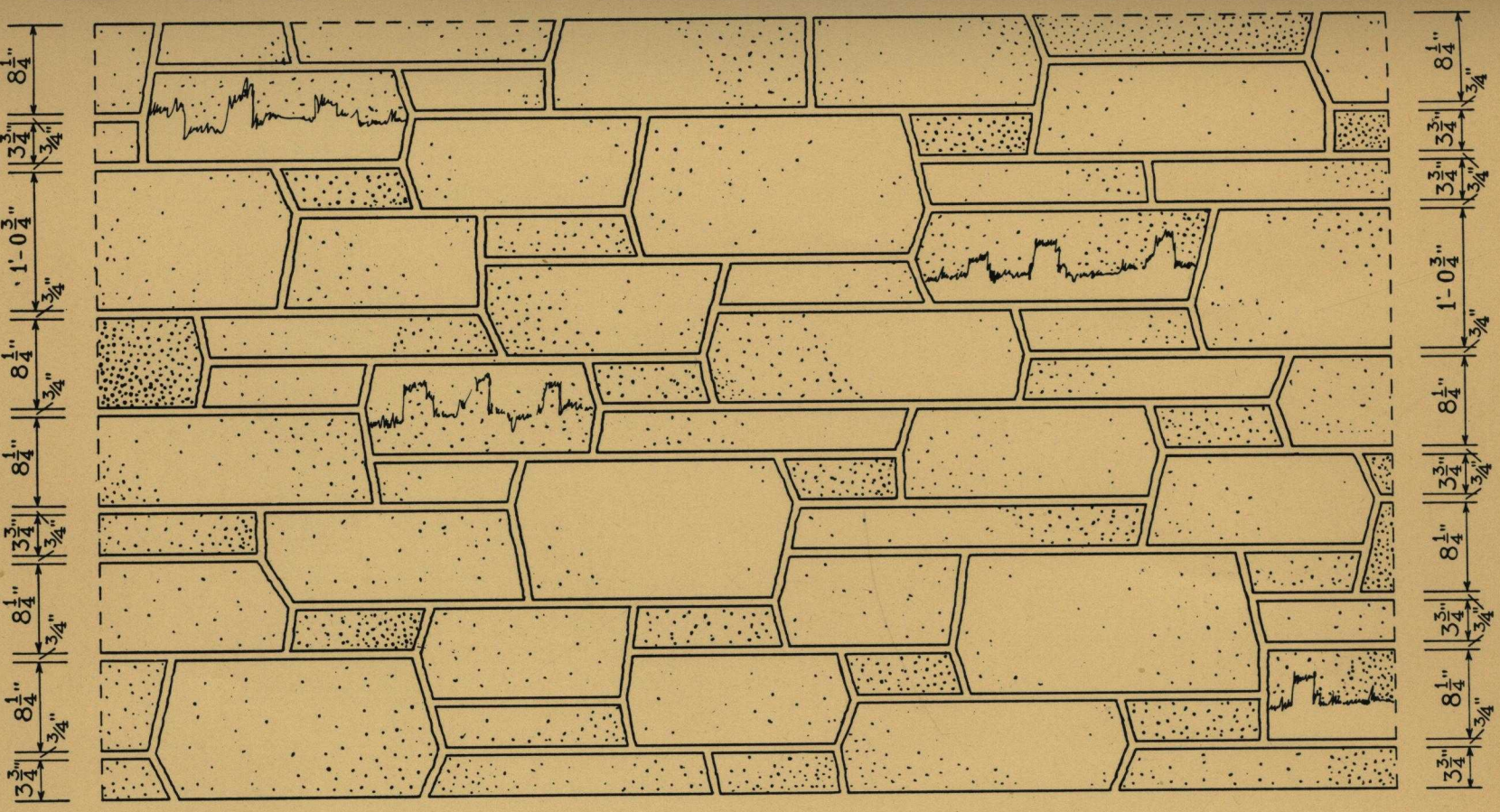
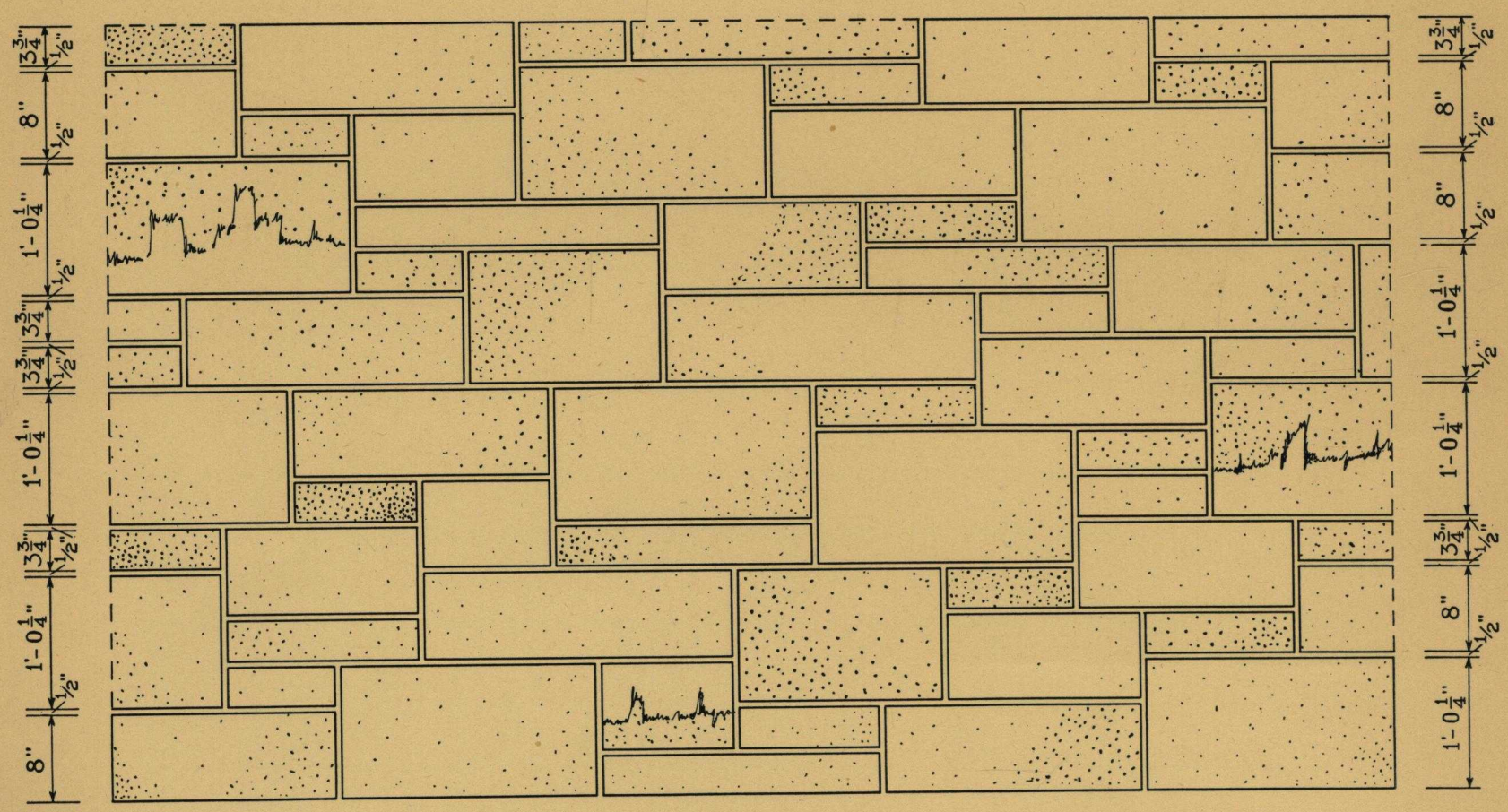


Angular broken end, three unit random ashlar, similar to special **ILCO** wall panel No.10. Lengths of the larger stones average about twice their heights. Joints are three fourths of an inch.



Three unit, medium type random ashlar, similar to special **ILCO** wall panel No.15. Lengths of larger stones average about twice their heights. Joints are one half inch.

Furnished in strips; jointed to length at building site.

ILCO
DETAILS
REGISTERED U. S. PATENT OFFICE

RANDOM ASHLAR

Three unit, medium type jointing details, in plain and special treatment for walls of ILCO RIPLSTONE

DRAWING Ф-27

Binder File Classification } 85.4

February 1, 1931.

INDIANA LIMESTONE COMPANY-BEDFORD, INDIANA, U.S.A.

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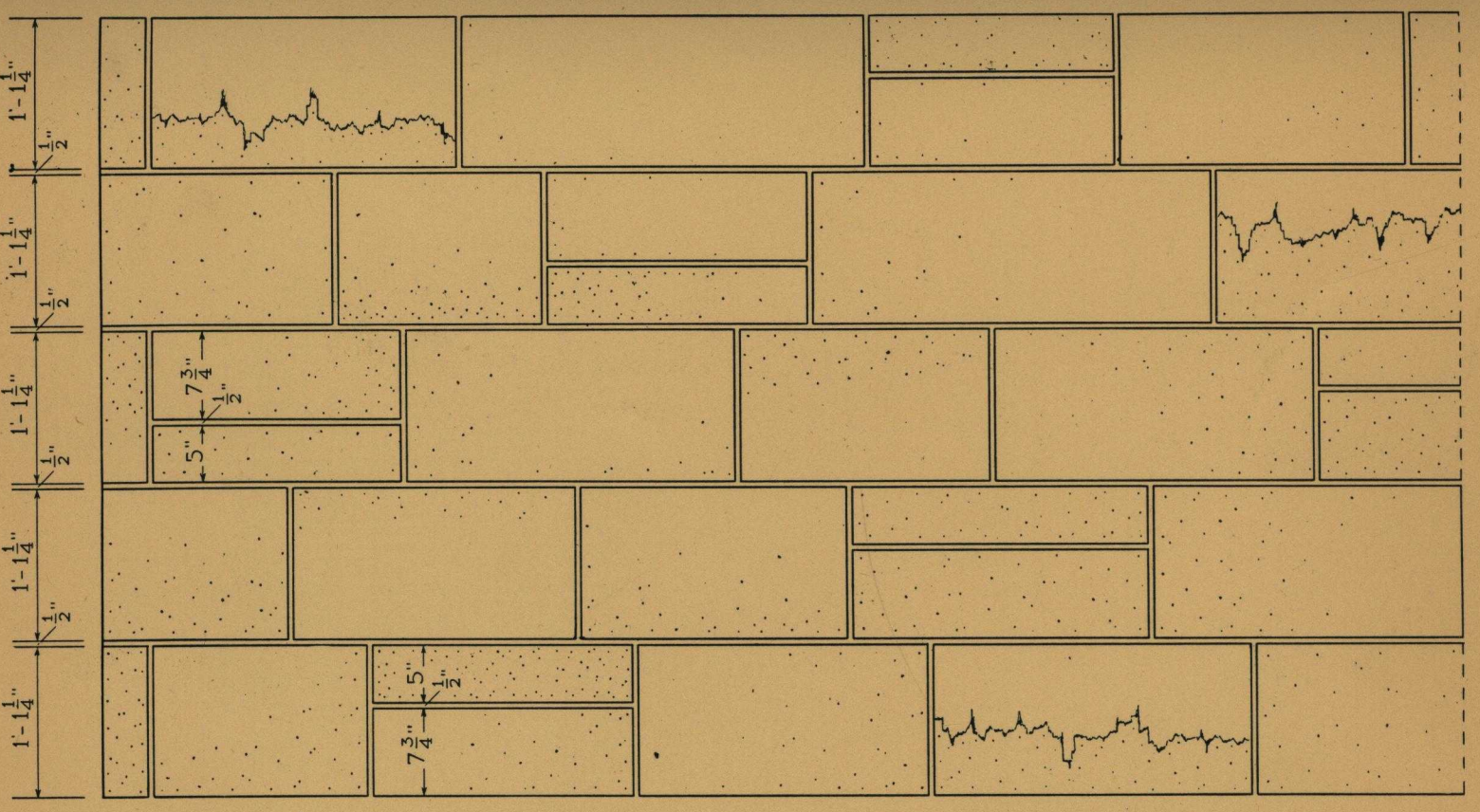
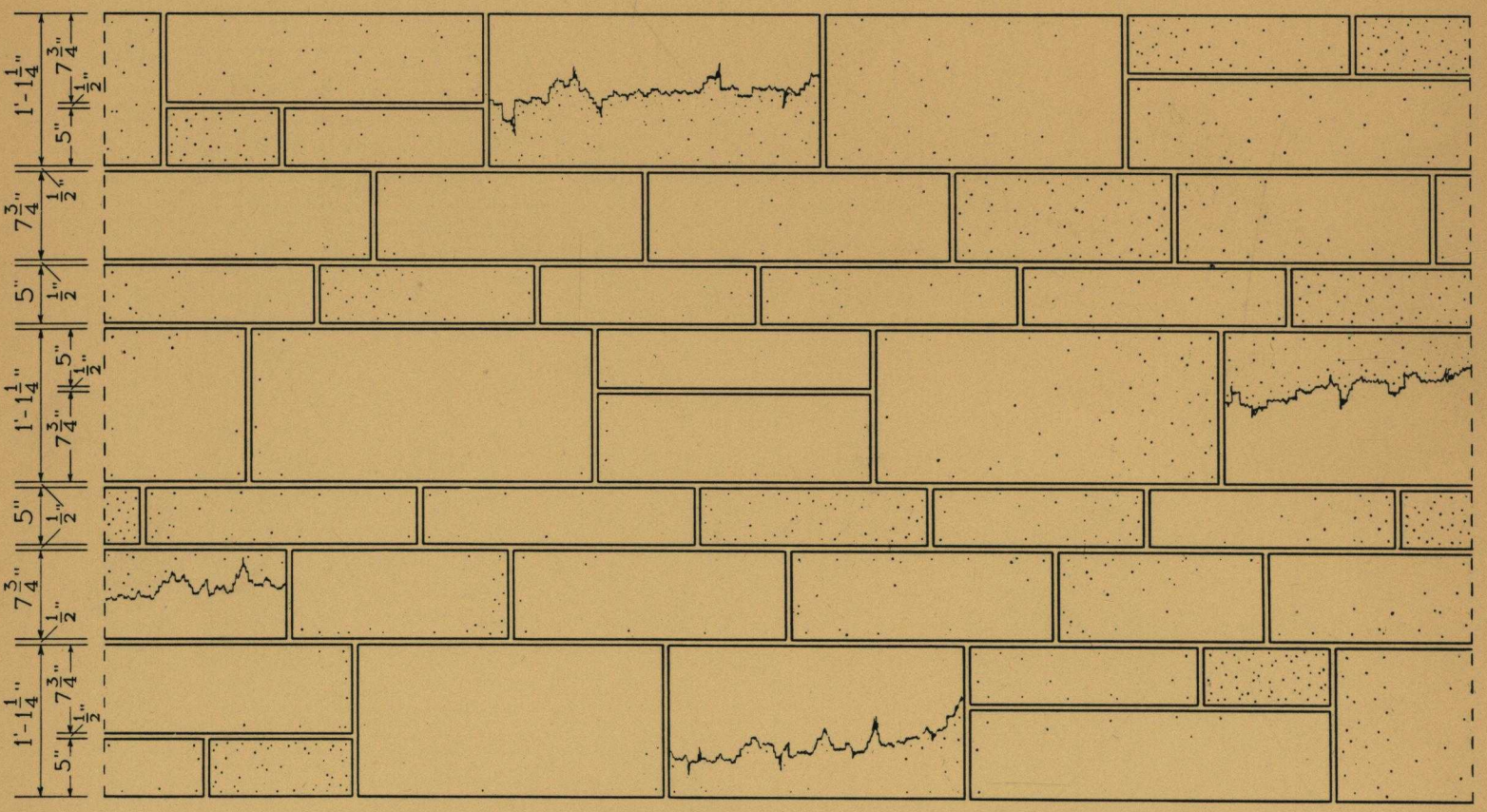


Range work of equal course heights with occasional units divided by horizontal joints; similar to **ILCO** wall panel No. 20. Joints are one half inch.



Three unit range work with occasional horizontal joints in the higher courses. Joints are one half inch.

Furnished in strips; jointed to length at building site.

ILCO
DETAILS
REGISTERED U. S. PATENT OFFICE

RANGE WORK

Jointing details of equal and unequal course heights, random lengths, for walls of ILCO RIPLSTONE

DRAWING Φ-31

Binder File Classification } 85.5

May 1, 1931.

INDIANA LIMESTONE COMPANY - BEDFORD, INDIANA, U.S.A.

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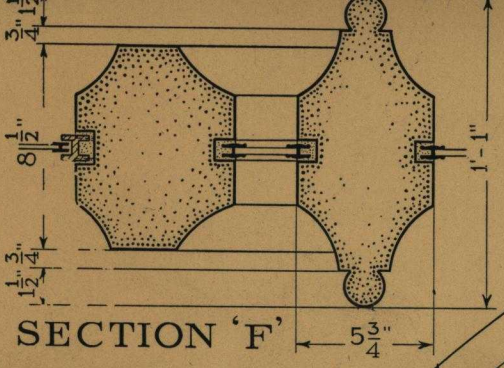
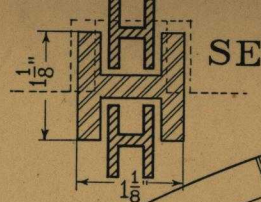
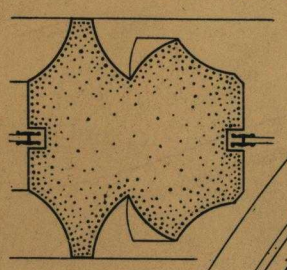
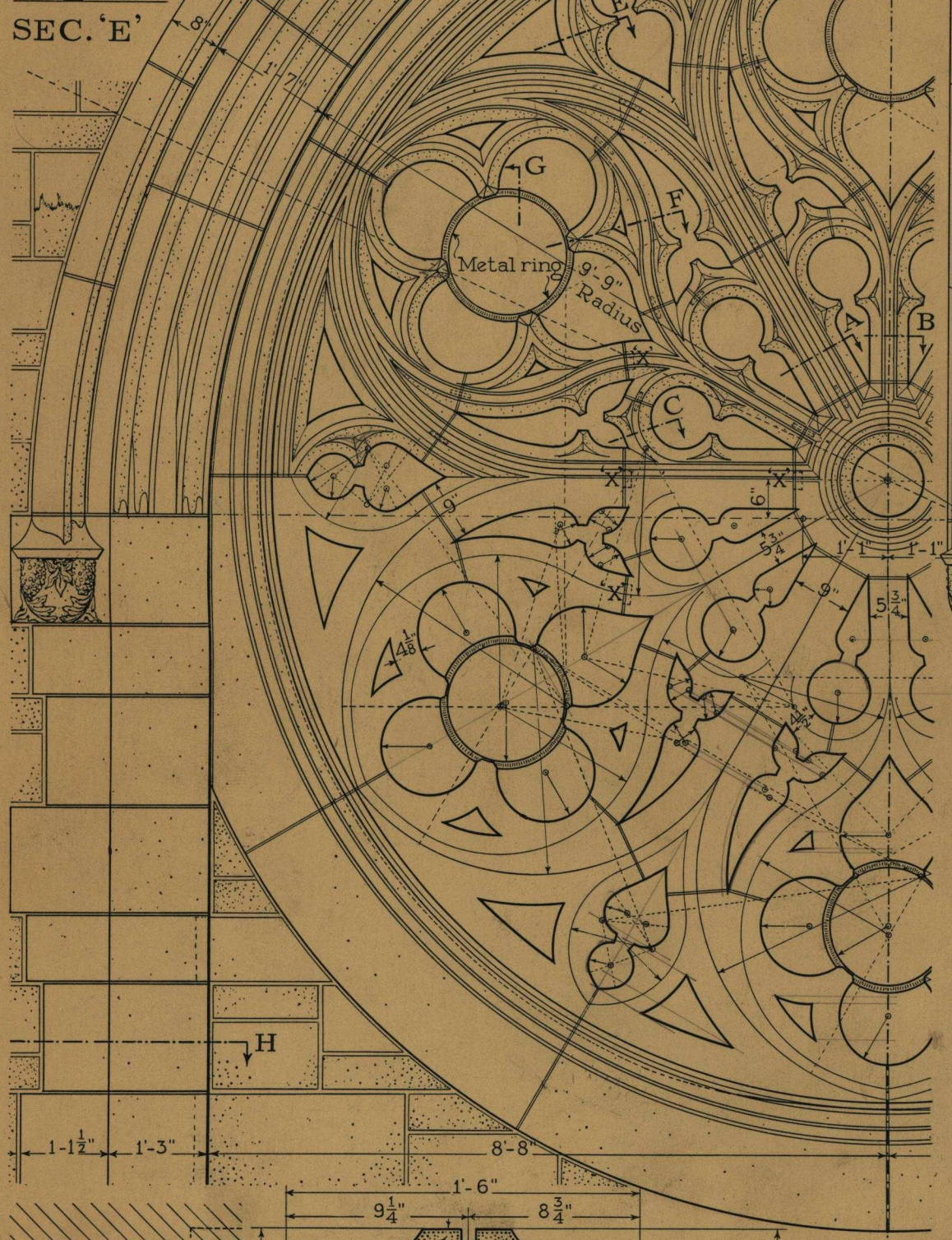
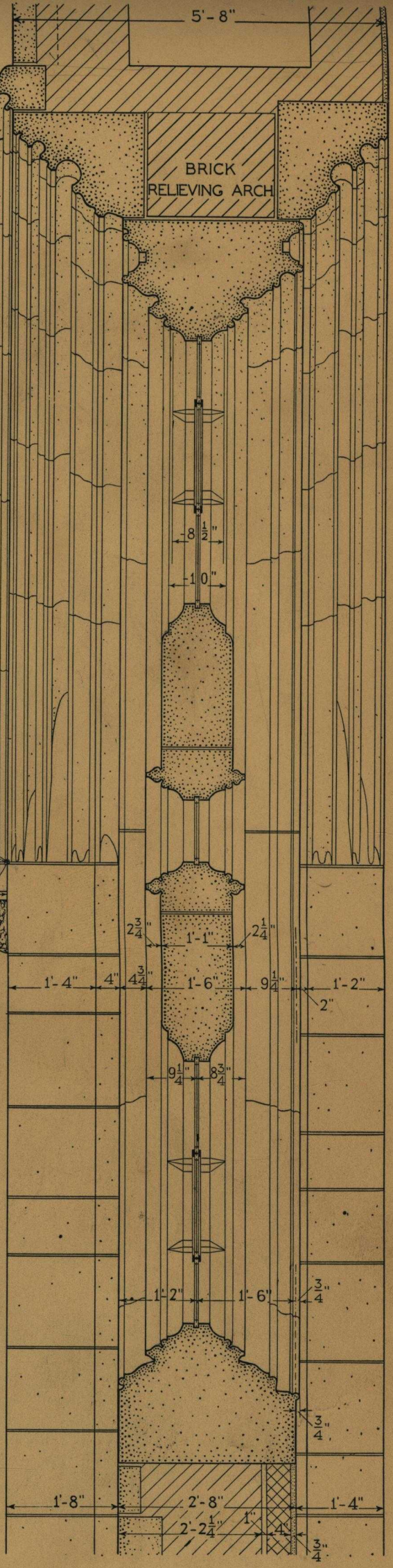


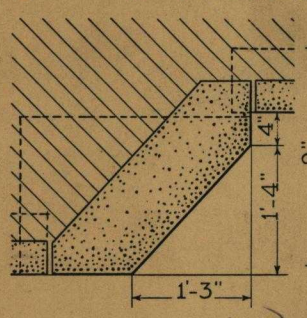




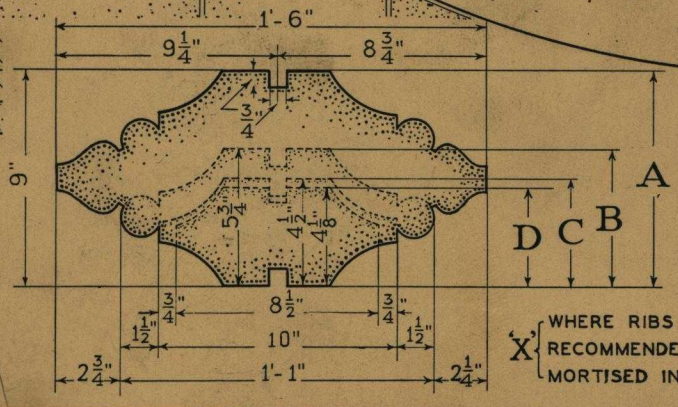




SECTION
AT CENTER LINE



SECTION 'H'



'X' WHERE RIBS JOIN ON A LEVEL, IT IS RECOMMENDED THAT THE JOINTS BE MORTISED INSTEAD OF DOWELED.

ILCO
DETAILS
REGISTERED U S PATENT OFFICE

ROSE WINDOW

DRAWING Ⅾ-30
Binder File Classification } 44.2
May 1, 1931.

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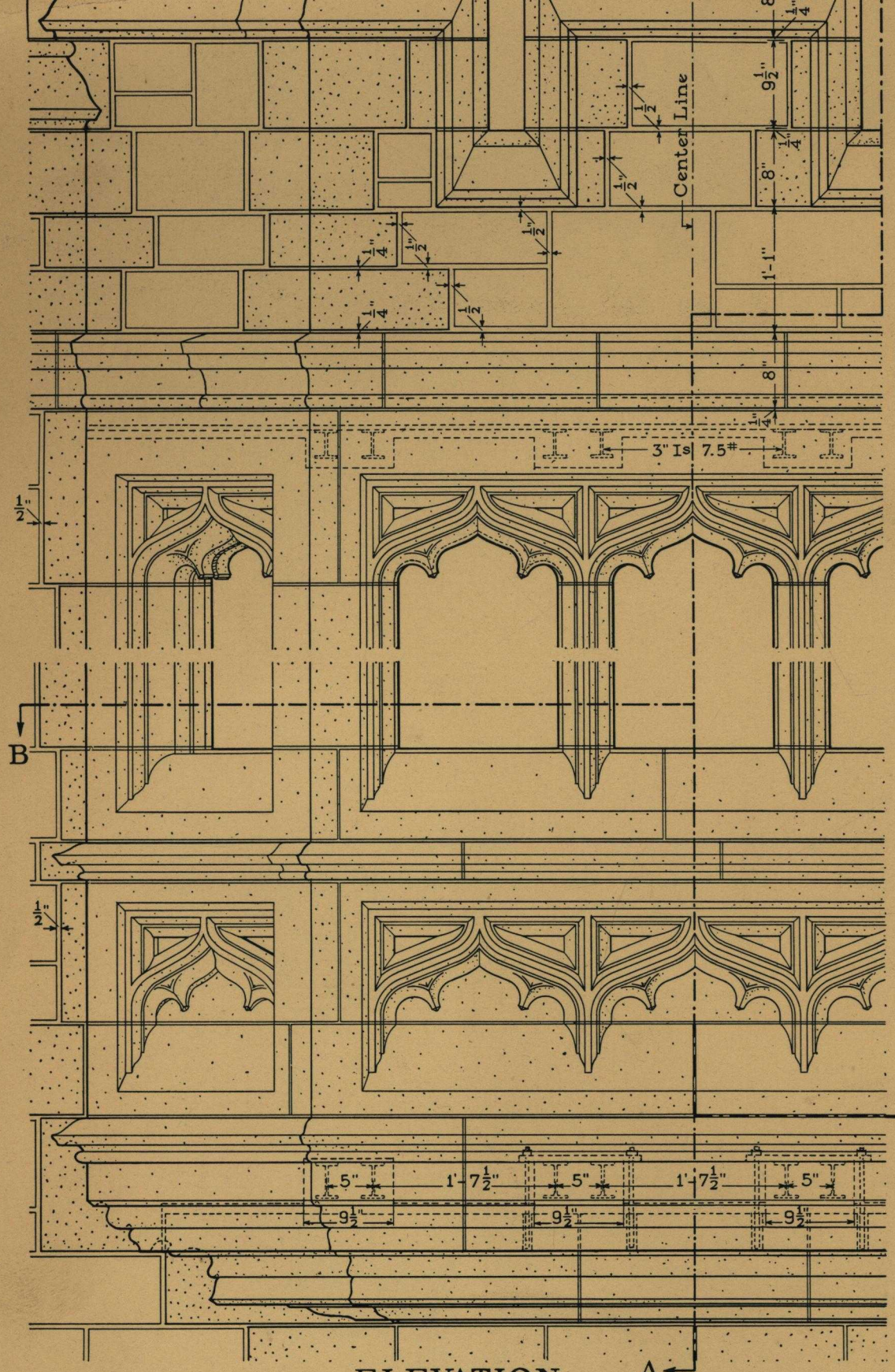
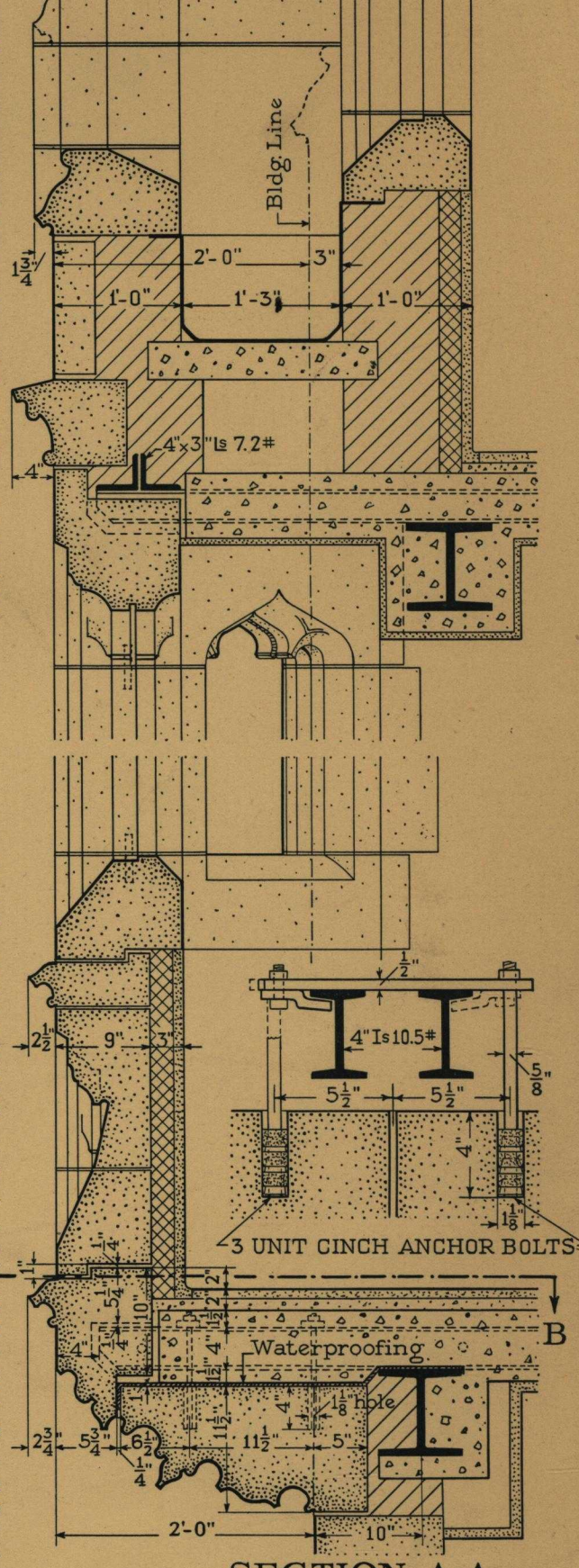
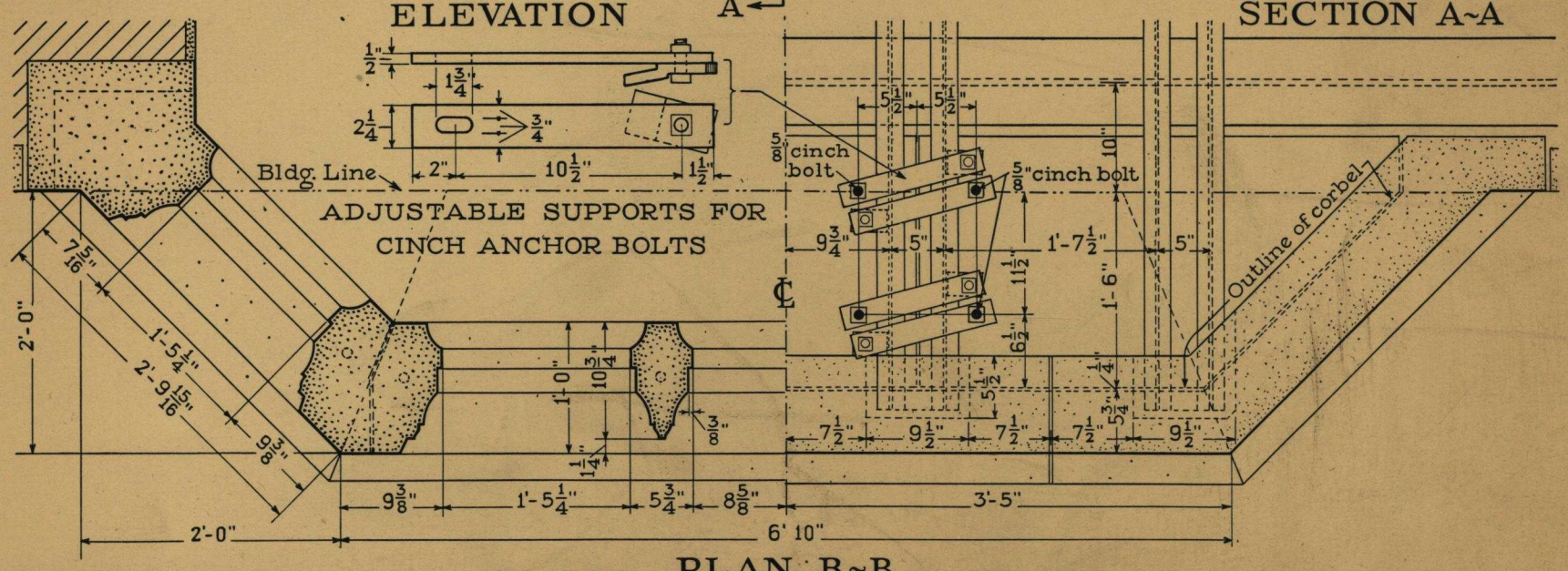


ELEVATION



SECTION A~A



PLAN B~B

ILCO DETAILS
REGISTERED U. S. PATENT OFFICE

CORBELED BAY

Construction for Support of
Corbeled Bay Window.

DRAWING Φ-28

Binder File Classification } 43.3

May 1, 1931.

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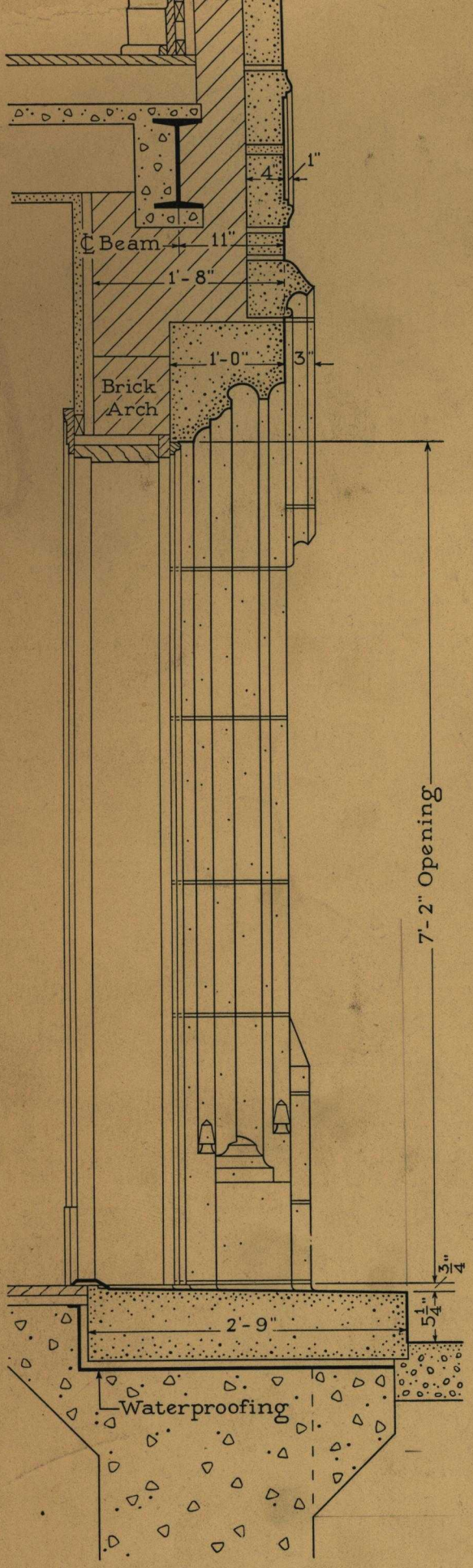
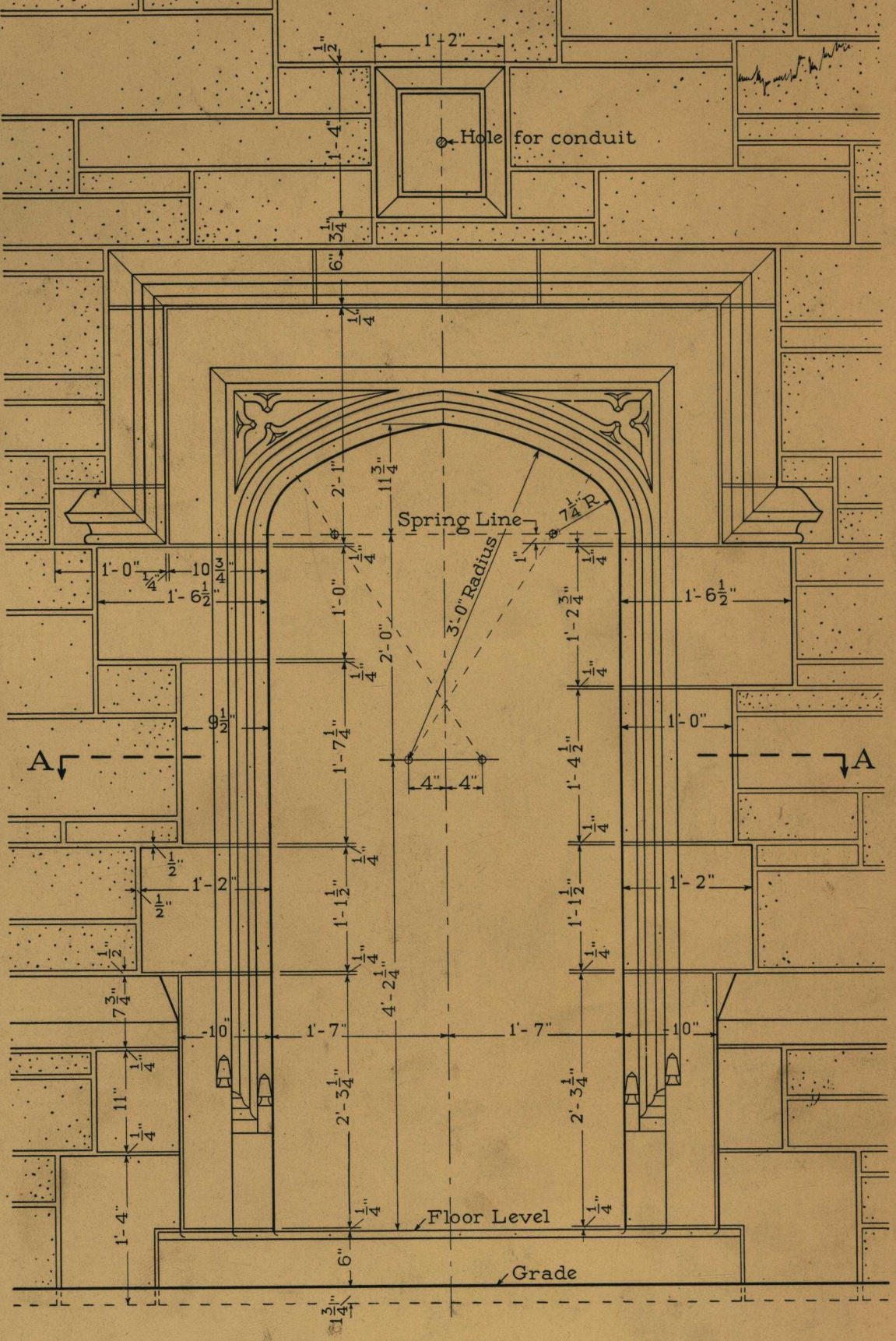
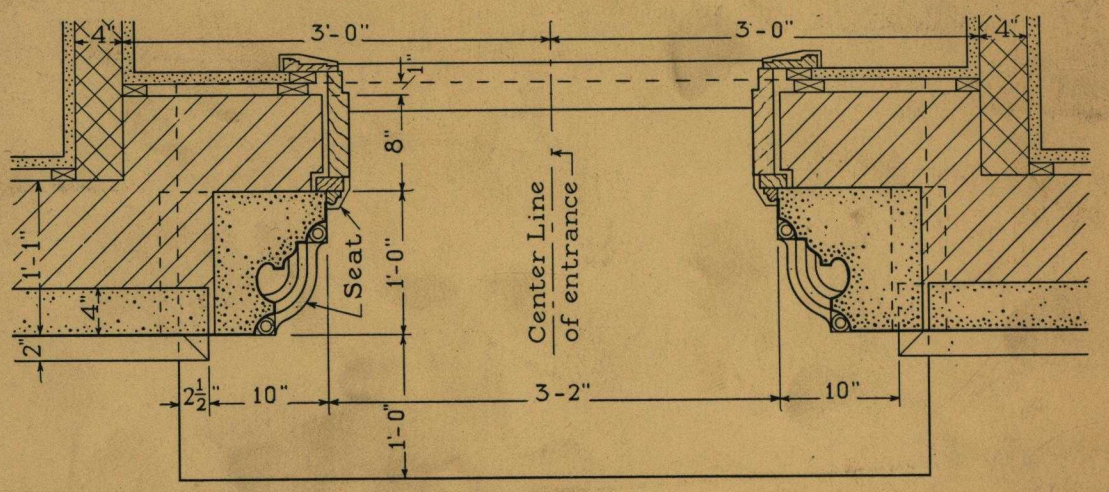


SECTION
AT CENTER LINE



ELEVATION



PLAN A-A

ILCO DETAILS
REGISTERED U.S PATENT OFFICE

GOTHIC ENTRANCE

DRAWING Φ-29
Binder File Classification } 43.4
May 1, 1931.

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